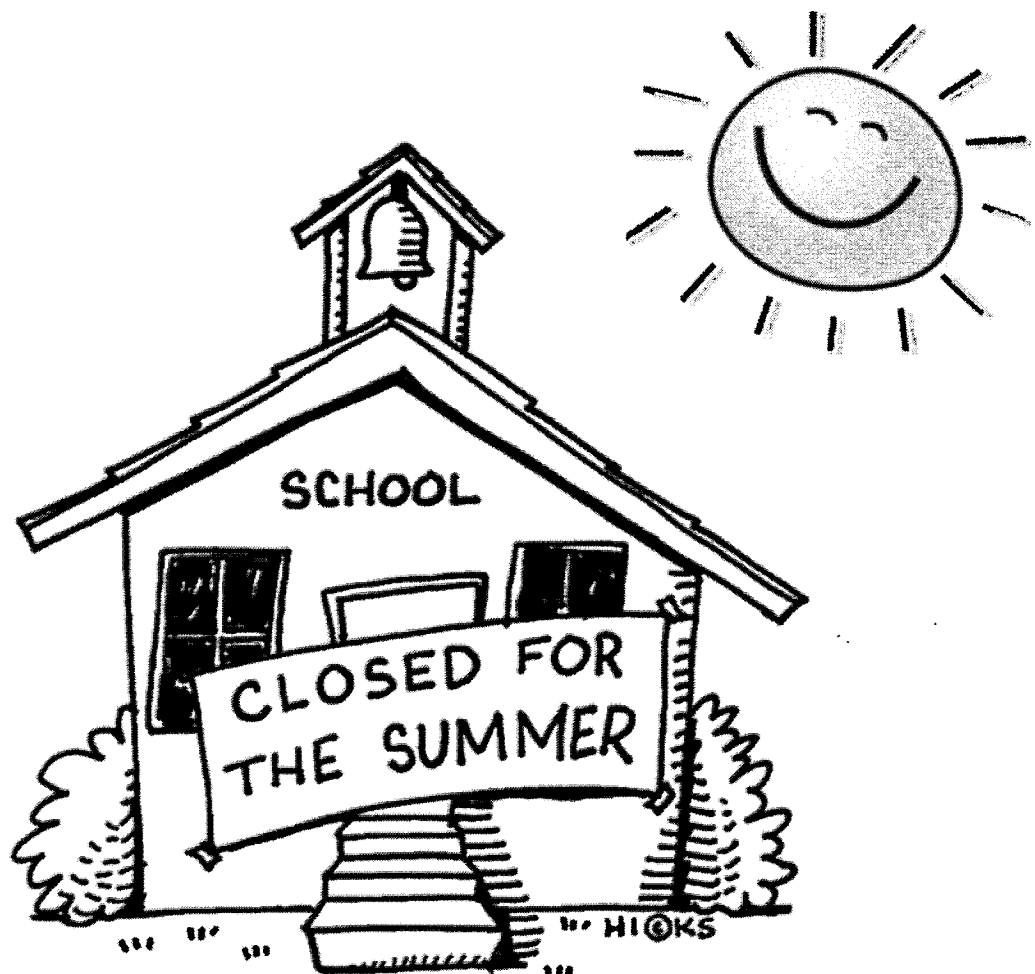


# My Summer Math Packet



Grade 3

Name \_\_\_\_\_ 1

# Master multiplication through $10 \times 10$ .

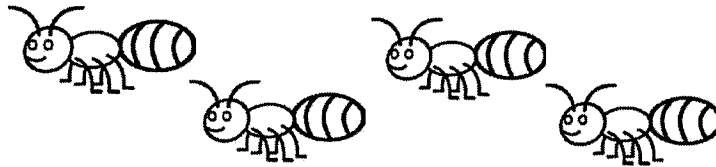
**Goal:** Solve all the problems correctly in under 2 minutes.

Directions: Have someone time you on the challenge below. Practice your multiplication flashcards and try the challenge again as you work through this packet.

$9 \times 9 = \underline{\quad}$	$8 \times 8 = \underline{\quad}$	$7 \times 1 = \underline{\quad}$	$6 \times 1 = \underline{\quad}$	$9 \times 4 = \underline{\quad}$
$4 \times 4 = \underline{\quad}$	$9 \times 8 = \underline{\quad}$	$8 \times 7 = \underline{\quad}$	$9 \times 3 = \underline{\quad}$	$7 \times 2 = \underline{\quad}$
$6 \times 2 = \underline{\quad}$	$7 \times 3 = \underline{\quad}$	$9 \times 7 = \underline{\quad}$	$8 \times 6 = \underline{\quad}$	$5 \times 5 = \underline{\quad}$
$7 \times 4 = \underline{\quad}$	$9 \times 2 = \underline{\quad}$	$6 \times 3 = \underline{\quad}$	$9 \times 6 = \underline{\quad}$	$8 \times 5 = \underline{\quad}$
$9 \times 1 = \underline{\quad}$	$5 \times 4 = \underline{\quad}$	$6 \times 4 = \underline{\quad}$	$7 \times 5 = \underline{\quad}$	$9 \times 5 = \underline{\quad}$
$8 \times 4 = \underline{\quad}$	$4 \times 3 = \underline{\quad}$	$7 \times 6 = \underline{\quad}$	$6 \times 5 = \underline{\quad}$	$5 \times 3 = \underline{\quad}$
$4 \times 2 = \underline{\quad}$	$8 \times 3 = \underline{\quad}$	$5 \times 2 = \underline{\quad}$	$4 \times 1 = \underline{\quad}$	$6 \times 6 = \underline{\quad}$
$7 \times 7 = \underline{\quad}$	$5 \times 1 = \underline{\quad}$	$8 \times 2 = \underline{\quad}$	$3 \times 3 = \underline{\quad}$	$8 \times 1 = \underline{\quad}$

How many problems did you solve correctly in 2 minutes? \_\_\_\_\_

\*Counters for this activity can be pennies, macaroni, bingo chips, paper clips, etc.



# Ant Antics

Use 24 counters to stand for ants. Form the ants into the patterns below. Draw a picture of each solution.

1. One solid rectangle, with three equal rows of ants

2. One solid rectangle, with four equal rows of ants

3. Two solid rectangles, each exactly the same size

4. Six small squares, with the same number of ants in each square

5. One hollow rectangle, with nine ants on each long side and five ants on each short side

6. One hollow triangle, with the same number of ants on each side

7. Four small triangles, with the same number of ants in each triangle

8. Three solid triangles—one with three ants, one with six ants and one with 15 ants



Make your own shape. Then describe your shape.

Fill in the blanks.

Multiplication With Factors From 6 to 9

# Day at the Beach



\_\_\_\_\_ (name of a boy or girl),  
\_\_\_\_\_ (name of a boy or girl), and  
\_\_\_\_\_ (name of a boy or girl) went to  
\_\_\_\_\_ (noun) Beach. They brought \_\_\_\_\_ (number greater than 1)  
umbrellas and \_\_\_\_\_ (number greater than 1) beach blankets. They also  
had \_\_\_\_\_ (number from 6 to 9) buckets to collect shells. They found shells  
shaped like \_\_\_\_\_ (plural noun) and shells that looked like  
\_\_\_\_\_. Altogether, they had \_\_\_\_\_ (number from 6 to 9) shells  
(plural noun) in each bucket. After collecting shells, it was time for a snack. Everyone  
enjoyed \_\_\_\_\_ (type of food, plural) and some ice-cold \_\_\_\_\_ (type of liquid).  
It was a very \_\_\_\_\_ (adjective) day at the beach!

## Questions:

How many umbrellas and beach blankets did they bring? \_\_\_\_\_

How many shells did they have in all? \_\_\_\_\_

Practice your addition facts.

$$\begin{array}{r} 10 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$$

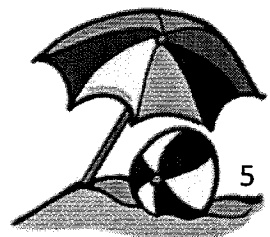
$$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

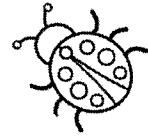
$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 10 \\ \hline \end{array}$$



Practice your subtraction facts.



$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ - 5 \\ \hline \end{array}$
--	---	---	---	---	--

$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$
---	--	---	---	---	---



$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$
---	---	---	--	---	---

$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$
--	--	--	--	---	---



$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$
--	---	---	---	---	--

$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ - 9 \\ \hline \end{array}$
---	--	---	---	---	--



$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ - 0 \\ \hline \end{array}$
--	---	--	--	---	---



Add and subtract as you follow the paths. Put your final answers at each finish line.

# Take a Hike!

**START**

10

-3

+5

-4

+8

-2

+6

-3

+7

+10

-9

+9

+4

-5

-13

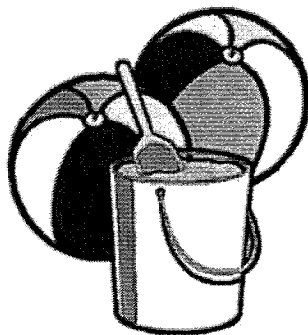
**FINISH**   **FINISH**   **FINISH**   **FINISH**   **FINISH**

Round to the nearest ten above and below, and circle the rounded number that is closest to the given number.

- 1) 70 74 80      6) 540 548 550  
2) \_\_\_\_\_ 41 \_\_\_\_\_      7) \_\_\_\_\_ 322 \_\_\_\_\_  
3) \_\_\_\_\_ 62 \_\_\_\_\_      8) \_\_\_\_\_ 548 \_\_\_\_\_  
4) \_\_\_\_\_ 47 \_\_\_\_\_      9) \_\_\_\_\_ 599 \_\_\_\_\_  
5) \_\_\_\_\_ 97 \_\_\_\_\_      10) \_\_\_\_\_ 148 \_\_\_\_\_

Round to the nearest hundred above and below, and circle the rounded number that is closest to the given number.

- 1) 400 431 500      6) \_\_\_\_\_ 645 \_\_\_\_\_  
2) \_\_\_\_\_ 811 \_\_\_\_\_      7) \_\_\_\_\_ 416 \_\_\_\_\_  
3) \_\_\_\_\_ 656 \_\_\_\_\_      8) \_\_\_\_\_ 956 \_\_\_\_\_  
4) \_\_\_\_\_ 735 \_\_\_\_\_      9) \_\_\_\_\_ 618 \_\_\_\_\_  
5) \_\_\_\_\_ 812 \_\_\_\_\_      10) \_\_\_\_\_ 389 \_\_\_\_\_





Estimate the difference by rounding each number to the nearest ten.

$$\begin{array}{r} 1) \quad 64 \longrightarrow \\ - 53 \longrightarrow \end{array} \quad \underline{\quad} - \underline{\quad}$$

$$\begin{array}{r} 4) \quad 84 \longrightarrow \\ - 34 \longrightarrow \end{array} \quad \underline{\quad} - \underline{\quad}$$

$$\begin{array}{r} 2) \quad 45 \longrightarrow \\ + 44 \longrightarrow \end{array} \quad \underline{\quad} + \underline{\quad}$$

$$\begin{array}{r} 5) \quad 51 \longrightarrow \\ - 15 \longrightarrow \end{array} \quad \underline{\quad} - \underline{\quad}$$

$$\begin{array}{r} 3) \quad 92 \longrightarrow \\ + 81 \longrightarrow \end{array} \quad \underline{\quad} + \underline{\quad}$$

$$\begin{array}{r} 6) \quad 34 \longrightarrow \\ 23 \longrightarrow \end{array} \quad \underline{\quad} + \underline{\quad}$$



Estimate the sum or difference by rounding each number to the nearest hundreds.

$$\begin{array}{r} 1) \quad 546 \longrightarrow \\ + 722 \longrightarrow \end{array} \quad \underline{\quad} + \underline{\quad}$$

$$\begin{array}{r} 3) \quad 812 \longrightarrow \\ - 278 \longrightarrow \end{array} \quad \underline{\quad} - \underline{\quad}$$

$$\begin{array}{r} 2) \quad 923 \longrightarrow \\ - 653 \longrightarrow \end{array} \quad \underline{\quad} - \underline{\quad}$$

$$\begin{array}{r} 4) \quad 172 \longrightarrow \\ + 281 \longrightarrow \end{array} \quad \underline{\quad} + \underline{\quad}$$

$$\begin{array}{r} 3) \quad 812 \longrightarrow \\ - 278 \longrightarrow \end{array} \quad \underline{\quad} - \underline{\quad}$$

$$\begin{array}{r} 5) \quad 667 \longrightarrow \\ + 557 \longrightarrow \end{array} \quad \underline{\quad} + \underline{\quad}$$

# Let's try multiplication again.

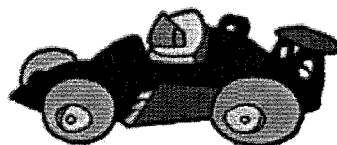
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Directions: Have someone time you on the challenge below. Practice your multiplication flashcards and try the challenge again as you work through this packet.

$9 \times 9 = \underline{\quad}$	$8 \times 8 = \underline{\quad}$	$7 \times 1 = \underline{\quad}$	$6 \times 1 = \underline{\quad}$	$9 \times 4 = \underline{\quad}$
$4 \times 4 = \underline{\quad}$	$9 \times 8 = \underline{\quad}$	$8 \times 7 = \underline{\quad}$	$9 \times 3 = \underline{\quad}$	$7 \times 2 = \underline{\quad}$
$6 \times 2 = \underline{\quad}$	$7 \times 3 = \underline{\quad}$	$9 \times 7 = \underline{\quad}$	$8 \times 6 = \underline{\quad}$	$5 \times 5 = \underline{\quad}$
$7 \times 4 = \underline{\quad}$	$9 \times 2 = \underline{\quad}$	$6 \times 3 = \underline{\quad}$	$9 \times 6 = \underline{\quad}$	$8 \times 5 = \underline{\quad}$
$9 \times 1 = \underline{\quad}$	$5 \times 4 = \underline{\quad}$	$6 \times 4 = \underline{\quad}$	$7 \times 5 = \underline{\quad}$	$9 \times 5 = \underline{\quad}$
$8 \times 4 = \underline{\quad}$	$4 \times 3 = \underline{\quad}$	$7 \times 6 = \underline{\quad}$	$6 \times 5 = \underline{\quad}$	$5 \times 3 = \underline{\quad}$
$4 \times 2 = \underline{\quad}$	$8 \times 3 = \underline{\quad}$	$5 \times 2 = \underline{\quad}$	$4 \times 1 = \underline{\quad}$	$6 \times 6 = \underline{\quad}$
$7 \times 7 = \underline{\quad}$	$5 \times 1 = \underline{\quad}$	$8 \times 2 = \underline{\quad}$	$3 \times 3 = \underline{\quad}$	$8 \times 1 = \underline{\quad}$

How many problems did you solve correctly in 2 minutes? \_\_\_\_\_

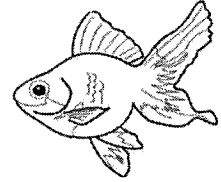
Solve by decomposing numbers to make tens.  
Fill in the boxes.



1.	$  \begin{array}{r}  34 \\  +17 \\  \hline  \end{array}  \rightarrow 34 - 3 \rightarrow 31  $ $  \begin{array}{r}  17 + 3 \rightarrow 20 \\  \hline  \end{array}  $ <div style="text-align: right; margin-top: 10px;"> <input style="width: 60px; height: 25px; border: 1px solid black;" type="text"/> </div>
2.	$  \begin{array}{r}  67 \\  -29 \\  \hline  \end{array}  \rightarrow 67 - 1 \rightarrow \boxed{\phantom{00}}  $ $  \begin{array}{r}  29 + 1 \rightarrow 30 \\  \hline  \end{array}  $ <div style="text-align: right; margin-top: 10px;"> <input style="width: 60px; height: 25px; border: 1px solid black;" type="text"/> </div>
3.	$  \begin{array}{r}  48 \\  +23 \\  \hline  \end{array}  \rightarrow 48 + \boxed{\phantom{00}} \rightarrow 50  $ $  \begin{array}{r}  23 - \boxed{\phantom{00}} \rightarrow 21 \\  \hline  \end{array}  $ <div style="text-align: right; margin-top: 10px;"> <input style="width: 60px; height: 25px; border: 1px solid black;" type="text"/> </div>
4.	$  \begin{array}{r}  74 \\  -36 \\  \hline  \end{array}  \rightarrow 74 - \boxed{\phantom{00}} \rightarrow 70  $ $  \begin{array}{r}  36 + \boxed{\phantom{00}} \rightarrow 40 \\  \hline  \end{array}  $ <div style="text-align: right; margin-top: 10px;"> <input style="width: 60px; height: 25px; border: 1px solid black;" type="text"/> </div>
5.	$  \begin{array}{r}  57 \\  +35 \\  \hline  \end{array}  \rightarrow 57 + \boxed{\phantom{00}} \rightarrow \boxed{\phantom{00}}  $ $  \begin{array}{r}  35 - \boxed{\phantom{00}} \rightarrow 30 \\  \hline  \end{array}  $ <div style="text-align: right; margin-top: 10px;"> <input style="width: 60px; height: 25px; border: 1px solid black;" type="text"/> </div>

Find the sum.

Don't forget to regroup!



$$\begin{array}{r} 559 \\ + 328 \\ \hline \end{array}$$

$$\begin{array}{r} 748 \\ + 461 \\ \hline \end{array}$$

$$\begin{array}{r} 881 \\ + 426 \\ \hline \end{array}$$

$$\begin{array}{r} 681 \\ + 758 \\ \hline \end{array}$$

$$\begin{array}{r} 718 \\ + 542 \\ \hline \end{array}$$

$$\begin{array}{r} 891 \\ + 772 \\ \hline \end{array}$$

$$\begin{array}{r} 608 \\ + 958 \\ \hline \end{array}$$

$$\begin{array}{r} 437 \\ + 678 \\ \hline \end{array}$$

$$\begin{array}{r} 645 \\ + 468 \\ \hline \end{array}$$

$$\begin{array}{r} 357 \\ + 294 \\ \hline \end{array}$$

Find the difference.

$$\begin{array}{r} 552 \\ - 146 \\ \hline \end{array}$$

$$\begin{array}{r} 488 \\ - 117 \\ \hline \end{array}$$

$$\begin{array}{r} 370 \\ - 140 \\ \hline \end{array}$$

$$\begin{array}{r} 675 \\ - 354 \\ \hline \end{array}$$

$$\begin{array}{r} 622 \\ - 453 \\ \hline \end{array}$$

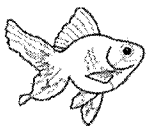
$$\begin{array}{r} 490 \\ - 454 \\ \hline \end{array}$$

$$\begin{array}{r} 984 \\ - 456 \\ \hline \end{array}$$

$$\begin{array}{r} 587 \\ - 107 \\ \hline \end{array}$$

$$\begin{array}{r} 847 \\ - 464 \\ \hline \end{array}$$

$$\begin{array}{r} 906 \\ - 210 \\ \hline \end{array}$$



More on the floor ...  
Go next door.

Oops! A messy math student spilled jelly all over these math problems! Can you figure out which numbers are hidden?

A. 
$$\begin{array}{r} \cdot 16 \cdot \\ + \phantom{00} \\ \hline 26 \end{array}$$

B. 
$$\begin{array}{r} 2\phantom{0} \\ - \phantom{0}4 \\ \hline 14 \end{array}$$

C. 
$$\begin{array}{r} \phantom{00}2 \\ + 6\phantom{0} \\ \hline 119 \end{array}$$

D. 
$$\begin{array}{r} \phantom{0}5\phantom{0} \\ - 103 \\ \hline 253 \end{array}$$

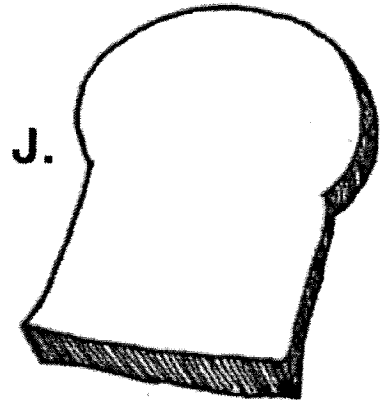
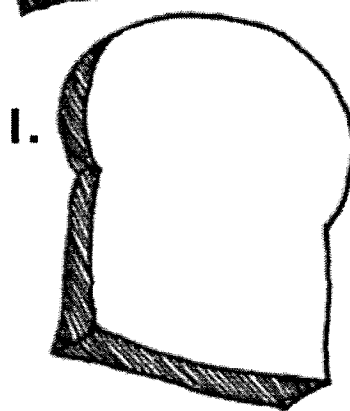
E. 
$$\begin{array}{r} \phantom{0}9 \\ + 2\phantom{0} \\ \hline 105 \end{array}$$

F. 
$$\begin{array}{r} 32 \\ - 1\phantom{0} \\ \hline 18 \end{array}$$





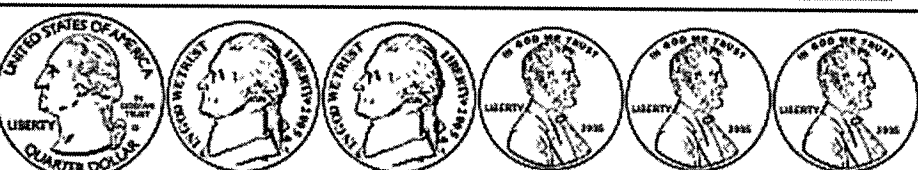
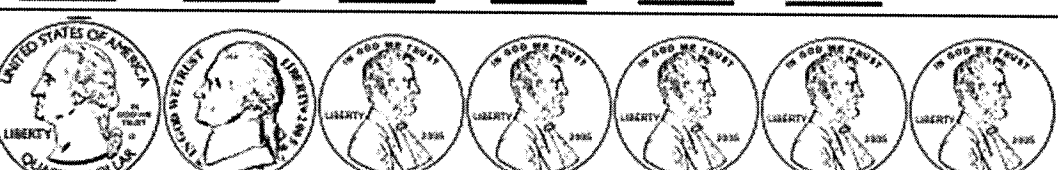
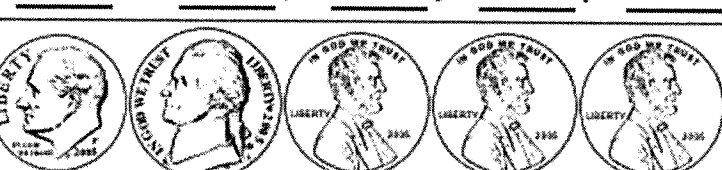
G. 
$$\begin{array}{r} 3\phantom{0} \\ + 22 \\ \hline \phantom{0}0 \end{array}$$

H. 
$$\begin{array}{r} 8\phantom{0} \\ - \phantom{0}5 \\ \hline 29 \end{array}$$

**➡➡➡** Make one messy addition and one messy subtraction of your own. Challenge a friend to solve them.



# Count the change.

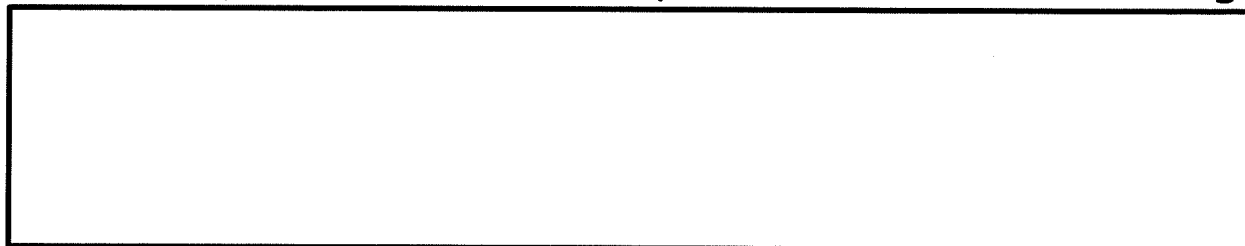
1)		Total
	_____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢	_____
2)		Total
	_____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢	_____
3)		Total
	_____ ¢    _____ ¢    _____ ¢    _____ ¢	_____
4)		Total
	_____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢	_____
5)		Total
	_____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢	_____
6)		Total
	_____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢	_____
7)		Total
	_____ ¢    _____ ¢    _____ ¢    _____ ¢    _____ ¢	_____

# Let's go out to lunch!

<b>SANDWICHES AND MORE</b>		<b>SIDE ORDERS</b>	
Hamburger .....	\$1.75	French Fries .....	\$0.75
with cheese .....	\$0.10 extra	Potato Chips .....	\$0.45
Hot Dog .....	\$1.25	Garden Salad .....	\$1.10
Peanut Butter and Jelly .....	\$1.05	Carrot Sticks .....	\$0.65
Bean Burrito .....	\$1.95		
Turkey Burger .....	\$1.55	<b>DRINKS</b>	
Spaghetti and Meatballs .....	\$2.15	Milk .....	\$0.65
Tuna .....	\$1.45	Soda .....	\$0.65
Grilled Cheese .....	\$1.65	Orange or Apple Juice .....	\$0.70
Mini-Pizza .....	\$2.10	Lemonade .....	\$0.55
		<b>DESSERTS</b>	
Ice Cream Sundae .....	\$2.25	Brownie .....	\$0.95
Fruit Salad .....	\$1.55	Chocolate Chip Cookies (2) ...	\$0.85

1. How much is a hot dog and a milk? \_\_\_\_\_
2. How much is a grilled cheese, French fries, and a soda?  
\_\_\_\_\_
3. How much is a mini-pizza, brownie, and a lemonade? \_\_\_\_\_
4. If you paid for question 3 with a \$5.00 bill how much change should you get back? \_\_\_\_\_

Draw the possible bills/coins you could receive as change.



Use the tally chart to answer the questions complete the bar graph below.

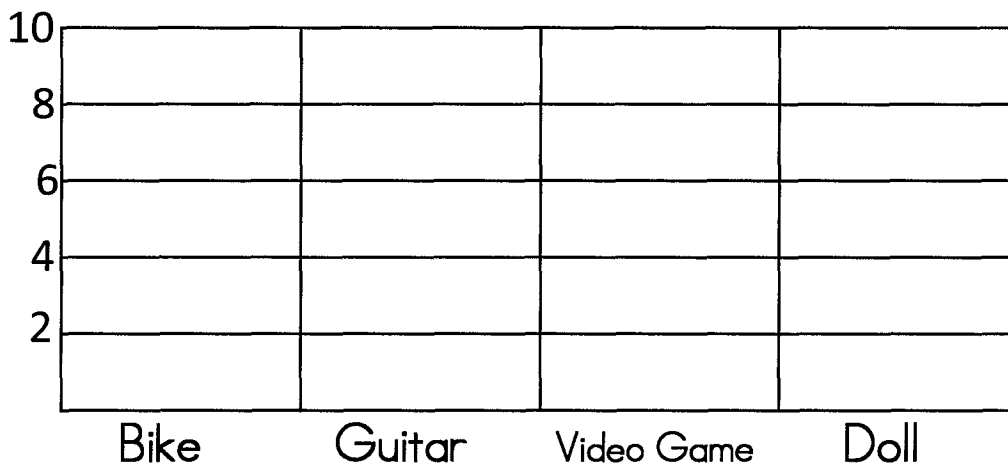
Jacob asked his friends what their favorite toy was. He made the tally chart below.



Favorite Toy	
Bike	
Guitar	
Video Game	
Doll	



Shade in the bar graph using the tally chart data.



1. How many people chose bike as their favorite toy? \_\_\_\_\_
2. What toy got the most votes? \_\_\_\_\_
3. How many people chose doll and guitar? \_\_\_\_\_
4. How many more people chose video game than bike? \_\_\_\_\_
5. How many people in all answered the survey? \_\_\_\_\_



Let's try multiplication again.

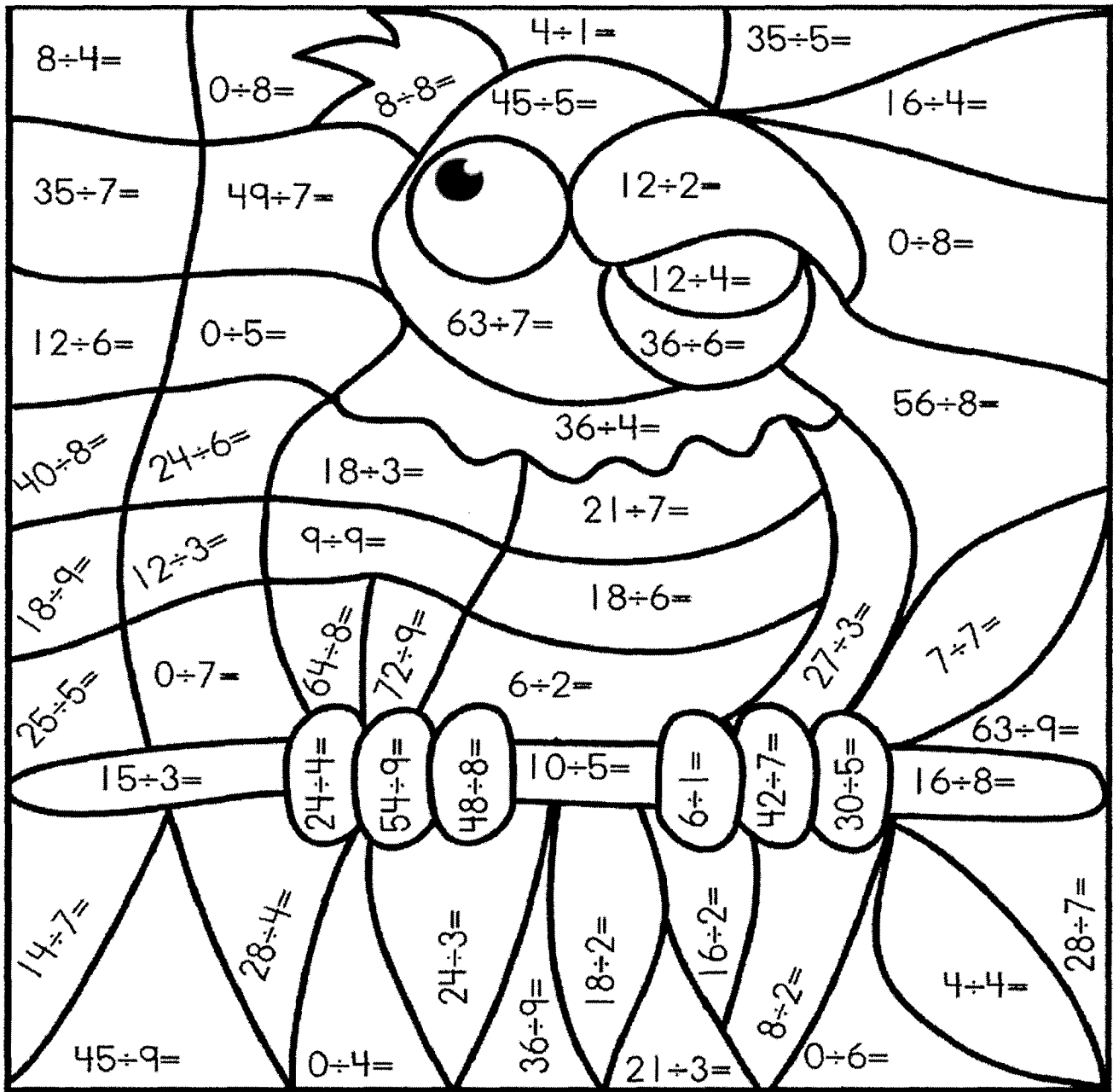
**Goal:** Solve all the problems correctly in under 2 minutes.


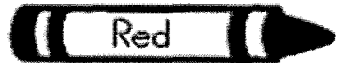


Directions: Have someone time you on the challenge below. Practice your multiplication flashcards and try the challenge again as you work through this packet.

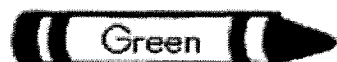
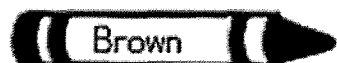

$9 \times 9 = \underline{\quad}$	$8 \times 8 = \underline{\quad}$	$7 \times 1 = \underline{\quad}$	$6 \times 1 = \underline{\quad}$	$9 \times 4 = \underline{\quad}$
$4 \times 4 = \underline{\quad}$	$9 \times 8 = \underline{\quad}$	$8 \times 7 = \underline{\quad}$	$9 \times 3 = \underline{\quad}$	$7 \times 2 = \underline{\quad}$
$6 \times 2 = \underline{\quad}$	$7 \times 3 = \underline{\quad}$	$9 \times 7 = \underline{\quad}$	$8 \times 6 = \underline{\quad}$	$5 \times 5 = \underline{\quad}$
$7 \times 4 = \underline{\quad}$	$9 \times 2 = \underline{\quad}$	$6 \times 3 = \underline{\quad}$	$9 \times 6 = \underline{\quad}$	$8 \times 5 = \underline{\quad}$
$9 \times 1 = \underline{\quad}$	$5 \times 4 = \underline{\quad}$	$6 \times 4 = \underline{\quad}$	$7 \times 5 = \underline{\quad}$	$9 \times 5 = \underline{\quad}$
$8 \times 4 = \underline{\quad}$	$4 \times 3 = \underline{\quad}$	$7 \times 6 = \underline{\quad}$	$6 \times 5 = \underline{\quad}$	$5 \times 3 = \underline{\quad}$
$4 \times 2 = \underline{\quad}$	$8 \times 3 = \underline{\quad}$	$5 \times 2 = \underline{\quad}$	$4 \times 1 = \underline{\quad}$	$6 \times 6 = \underline{\quad}$
$7 \times 7 = \underline{\quad}$	$5 \times 1 = \underline{\quad}$	$8 \times 2 = \underline{\quad}$	$3 \times 3 = \underline{\quad}$	$8 \times 1 = \underline{\quad}$

How many problems did you solve correctly in 2 minutes? \_\_\_\_\_

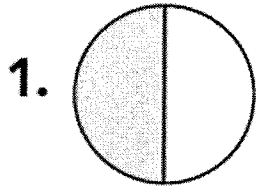
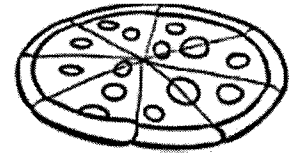
Write the quotient for each problem.  
Then color according to the key at the bottom.



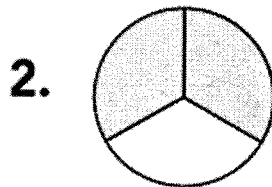
-  Blue 0, 4, 7
-  Red 3
-  Yellow 6
-  Violet 8

-  Green 1
-  Brown 2, 5
-  Pink 9

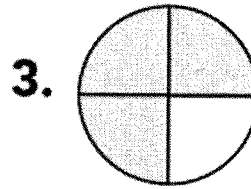
What fraction of the shape is shaded?



\_\_\_\_\_



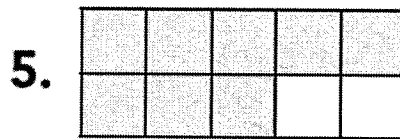
\_\_\_\_\_



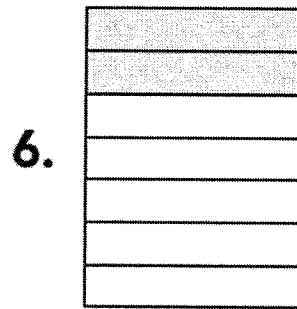
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

Compare the fractions. Use < or >.

1.  $\frac{1}{4}$    $\frac{1}{5}$

2.  $\frac{4}{6}$    $\frac{3}{4}$

3.  $\frac{1}{4}$    $\frac{3}{8}$

4.  $\frac{3}{6}$    $\frac{1}{3}$

5.  $\frac{2}{8}$    $\frac{2}{4}$

6.  $\frac{1}{2}$    $\frac{1}{3}$

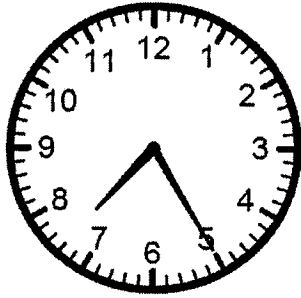
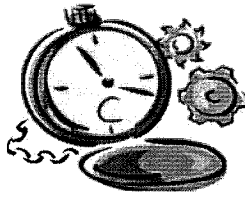
7.  $\frac{2}{10}$    $\frac{3}{5}$

8.  $\frac{1}{4}$    $\frac{5}{8}$

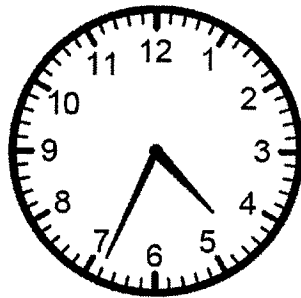
9.  $\frac{1}{5}$    $\frac{1}{3}$

10.  $\frac{1}{6}$    $\frac{2}{9}$

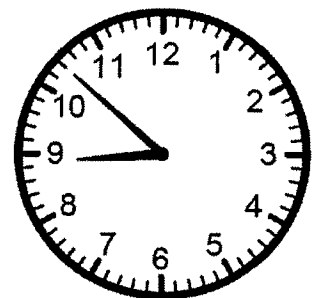
What time is it?



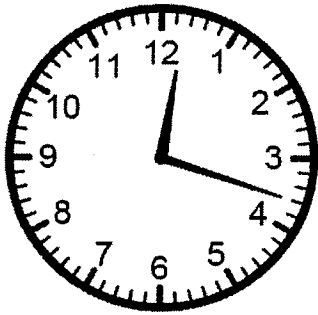
\_\_\_\_\_



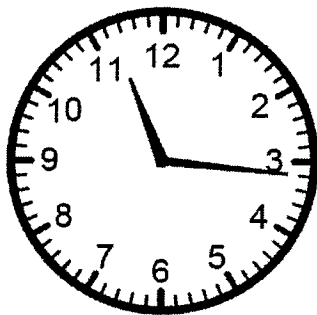
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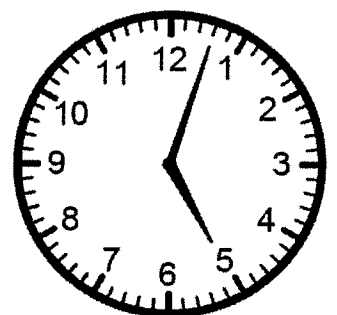
\_\_\_\_\_



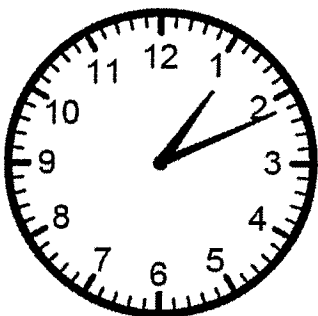
\_\_\_\_\_



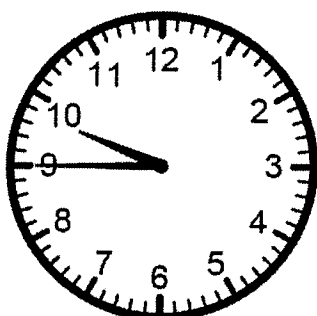
\_\_\_\_\_



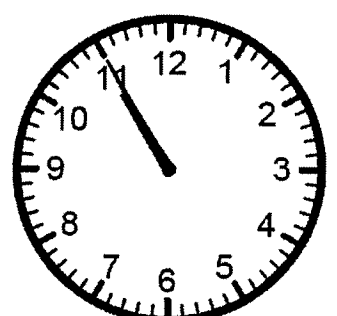
\_\_\_\_\_



\_\_\_\_\_

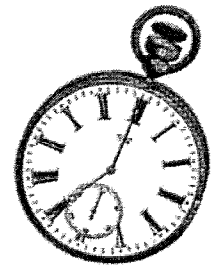


\_\_\_\_\_



\_\_\_\_\_

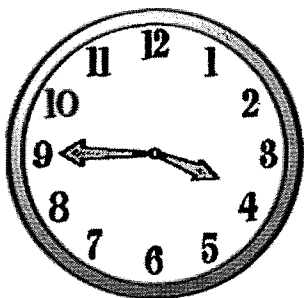
# Time for a Riddle!



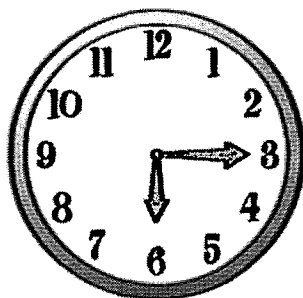
Read the riddle. To find the answer, find the clockface that matches the time written under each blank line. Then write the letter under that clockface on the blank line.

**Riddle:** What did the little hand on the clock say to the big hand?

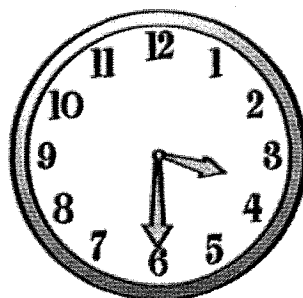
Answer: " \_\_\_\_\_ 10:00    3:30    3:30    6:05    2:25    3:45    6:15  
 \_\_\_\_\_ 4:45    6:05    2:55    3:45    3:45    2:55    "



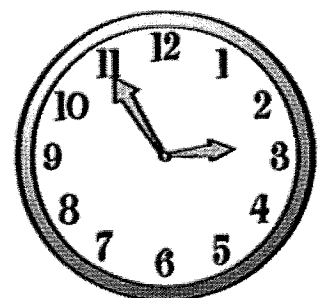
O



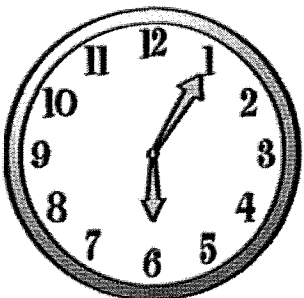
U



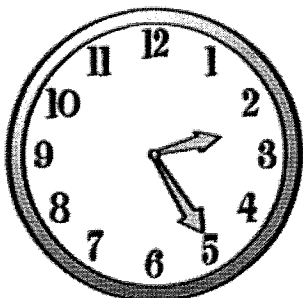
E



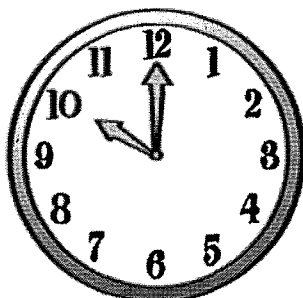
N



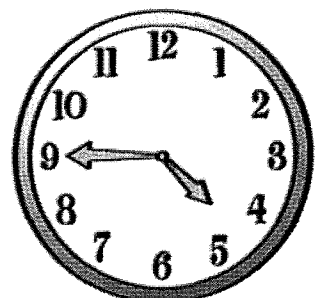
T



Y

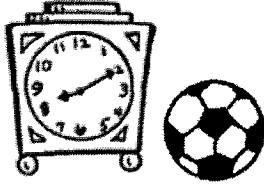
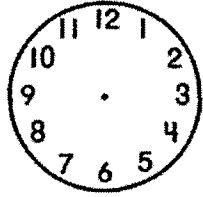
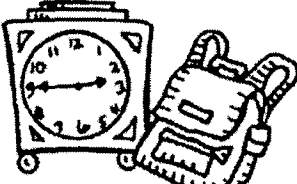
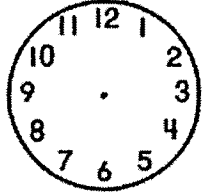
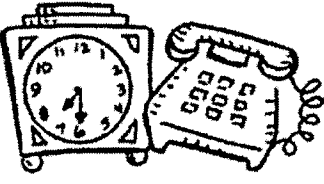
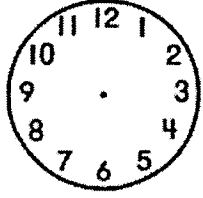
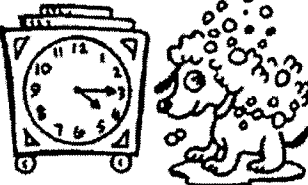
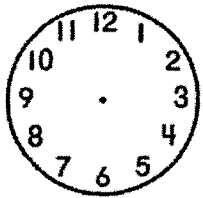
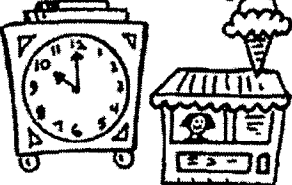
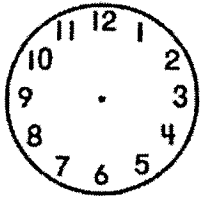
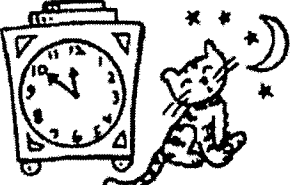
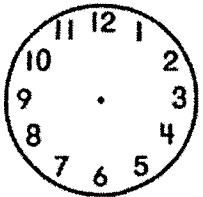


M



A

Look at the time on each clock. Then read and solve the problem. Write your answer on the lines. Then draw hands on the blank clock to show that time.

1		<p>It takes Jennie 20 minutes to get to soccer practice.</p> <p>What time will she get there? _____:_____</p>	
2		<p>Parker's mom picks him up after school. School ends in 30 minutes.</p> <p>What time will she pick him up? _____:_____</p>	
3		<p>Kyra talks on the phone for 15 minutes each night.</p> <p>What time will her phone call end? _____:_____</p>	
4		<p>Milo gets washed every Tuesday for 45 minutes.</p> <p>What time will his bath end? _____:_____</p>	
5		<p>Terrance works <math>1\frac{1}{2}</math> hours every Saturday.</p> <p>What time will he go home? _____:_____</p>	
6		<p>Every night, Sasha sings to the moon for 25 minutes.</p> <p>What time will she stop singing? _____:_____</p>	

# Measurement

## U.S. Customary

## Metric

### Length

Inch (in.)  
12 inches = 1 foot (ft.)  
3 feet = 1 yard (yd.)

### Length

centimeter (cm)  
100 centimeters = 1 meter (m)

### Weight

ounce (oz.)  
16 ounces = 1 pound (lb.)

### Weight

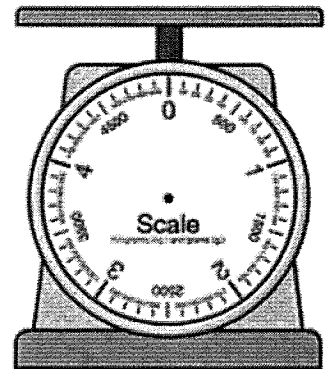
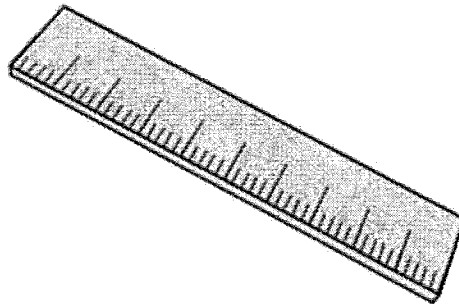
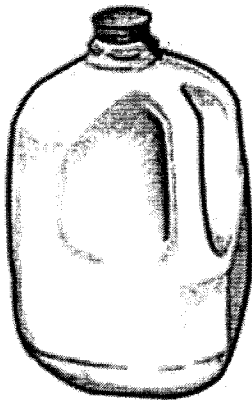
gram (g)  
1,000 grams = 1 kilogram (kg)

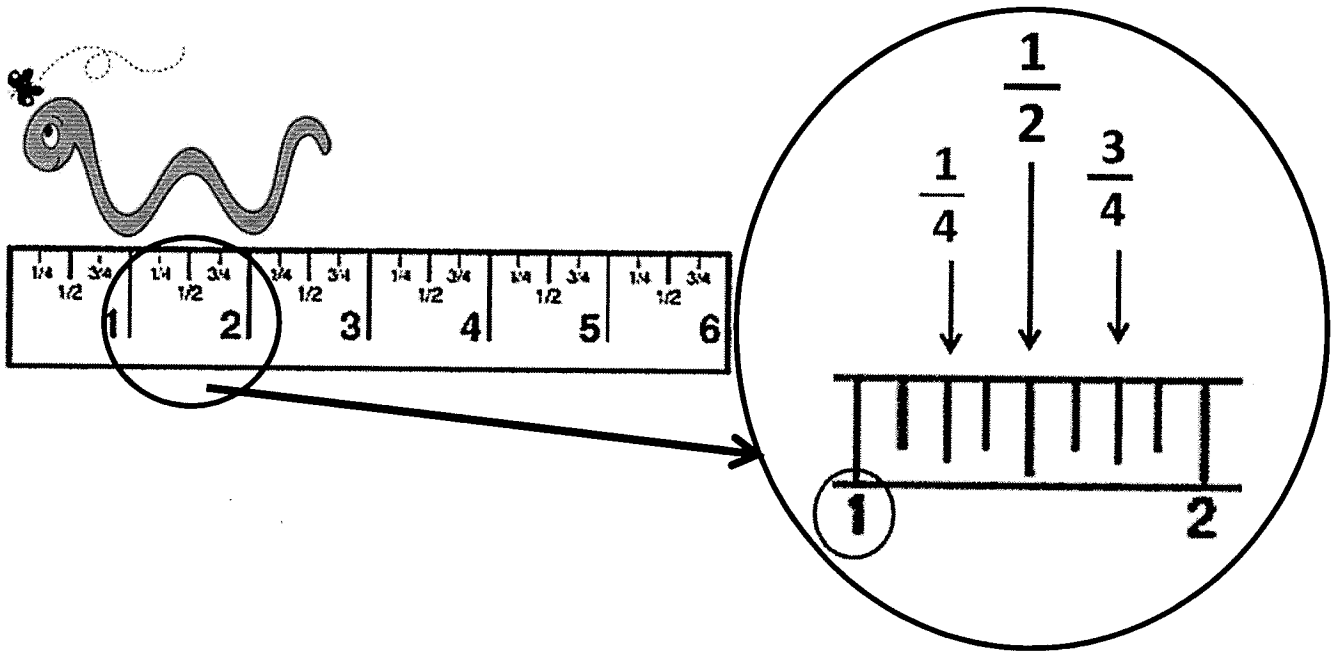
### Liquid

fluid ounce (fl. oz.)  
8 fluid ounces = 1 cup (c.)  
2 cups = 1 pint (pt.)  
2 pints = 1 quart (qt.)  
4 quarts = 1 gallon (gal.)

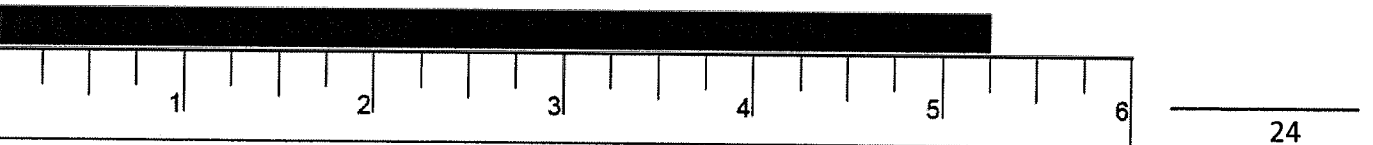
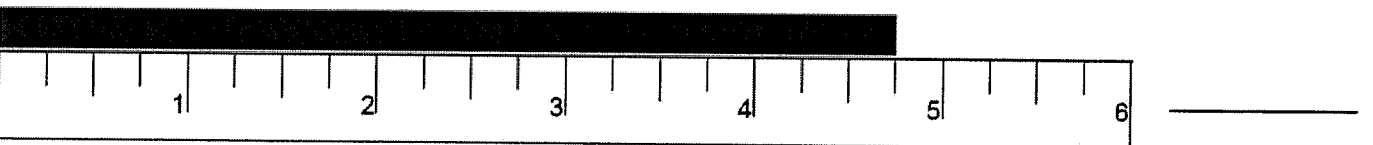
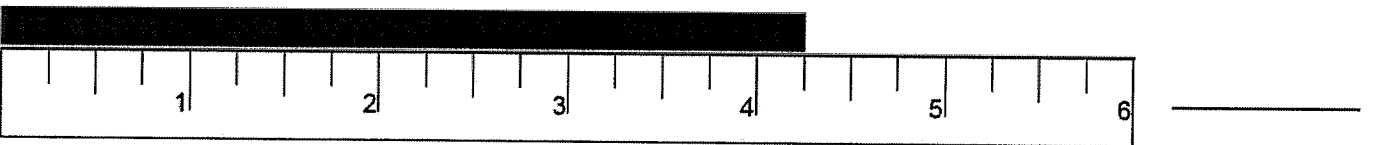
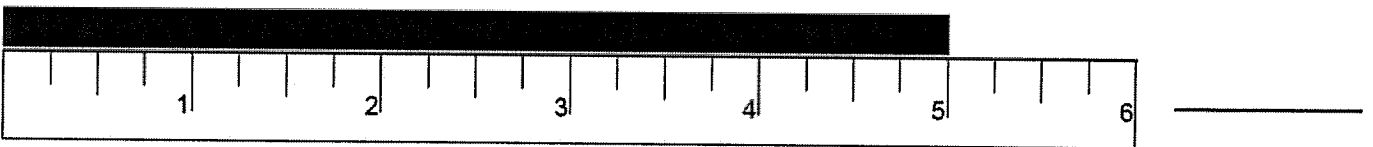
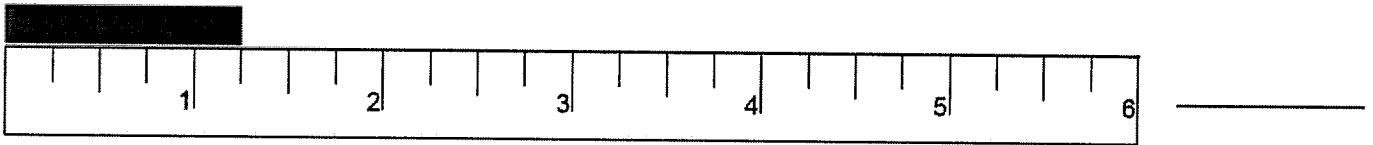
### Liquid

milliliter (ml)  
1,000 milliliters = 1 liter (l)





Use the ruler to measure to the nearest  $\frac{1}{4}$  inch.





## Select the appropriate unit of length.

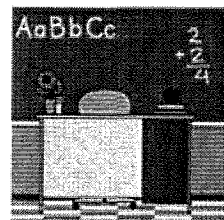
1. Height of a two story home

- A. 12 inches
- B. 12 feet
- C. 12 yards
- D. 12 miles



3. Length of a classroom.

- A. 24 inches
- B. 24 feet
- C. 24 yards
- D. 24 miles



2. Height of a can of soda

- A. 4 inches
- B. 4 feet
- C. 4 yards
- D. 4 miles



4. Distance from New York City to Los Angeles

- A. 2,448 inches
- B. 2,448 feet
- C. 2,448 yards
- D. 2,448 miles



## Circle the appropriate unit of weight/mass.

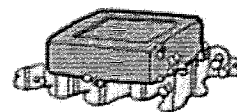
1. A large television



pounds

ounces

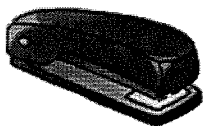
3. A bar of soap



pounds

ounces

2. A desk stapler



pounds

ounces

4. A set of encyclopedias

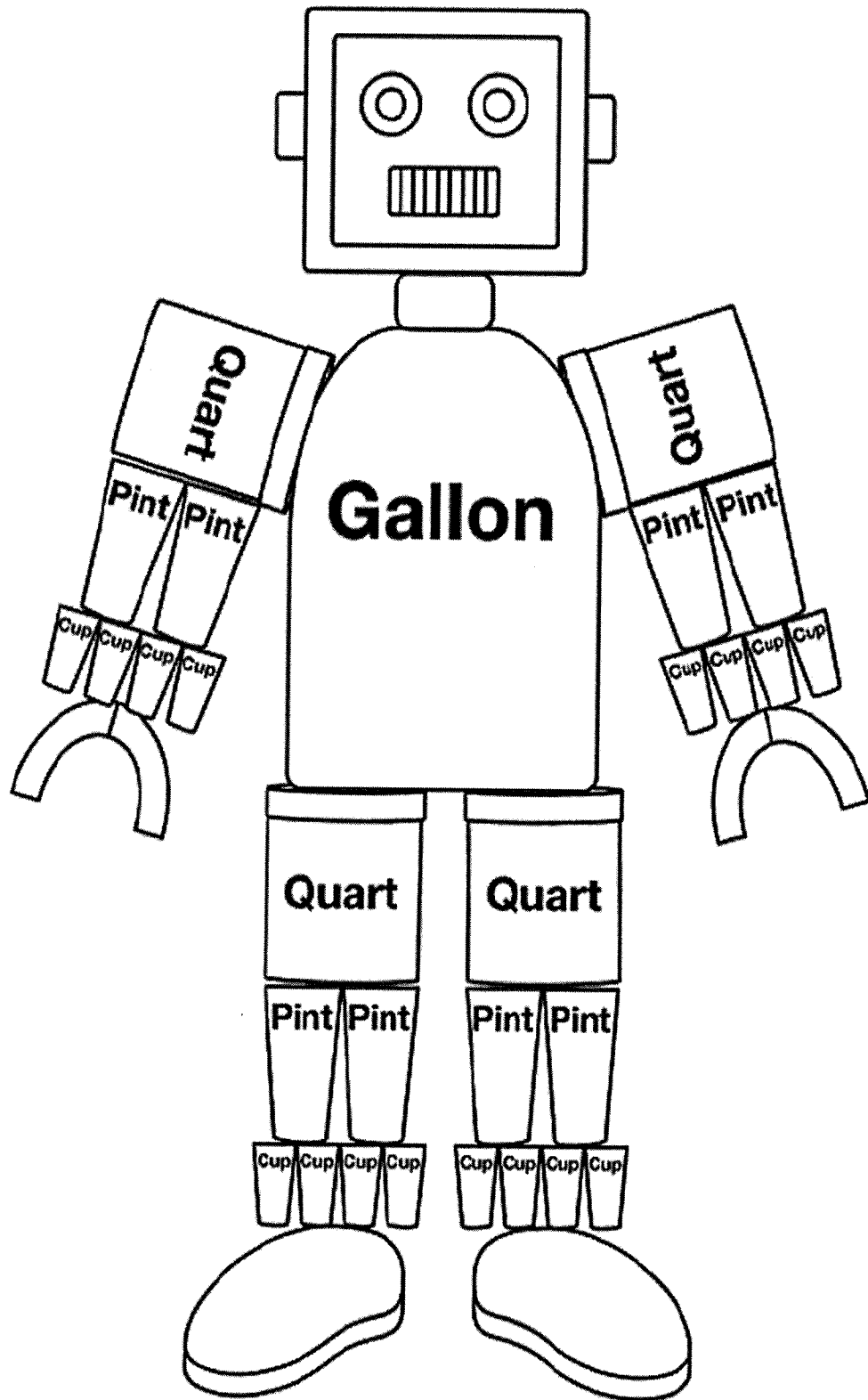


pounds

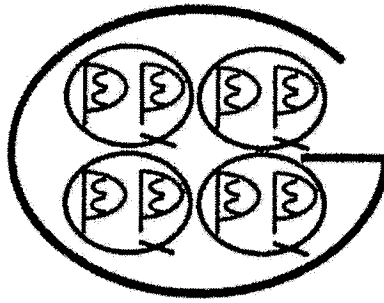
ounces

**Color GallonBot as follows:**

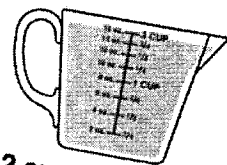
gallons - red    quarts - green    pints - blue    cups - purple



Use the graphic below to answer the questions.




- a. How many quarts are in a gallon? \_\_\_\_\_
- b. How many pints are in a gallon? \_\_\_\_\_
- c. How many cups are in a gallon? \_\_\_\_\_
- d. Which is greater: a quart or a pint? \_\_\_\_\_
- e. How many cups are in a pint? \_\_\_\_\_
- f. Which is less: a cup or a pint? \_\_\_\_\_
- g. How many cups are in a quart? \_\_\_\_\_
- h. How many pints are in 2 quarts? \_\_\_\_\_
- i. How many cups are in 3 pints? \_\_\_\_\_
- j. Which is greater: 8 cups or 1 quart? \_\_\_\_\_
- k. Which is less: 4 quarts or one gallon? \_\_\_\_\_




2 cups = 1 pint 27

**Circle the appropriate unit of metric weight/mass.**

1. A teaspoon of sugar 

grams      kilograms

2. A minivan 

grams      kilograms

3. A pencil 

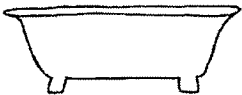
grams      kilograms

4. A real horse 

grams      kilograms

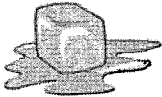
**Circle the appropriate unit of metric liquid volume**

1. The water used for a bath



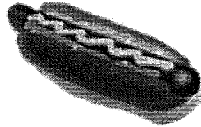
liters      milliliters

2. The water in an ice cube



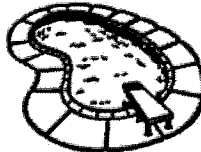
liters      milliliters

3. Mustard for a hot dog



liters      milliliters

4. The water in a pool



liters      milliliters

**Circle the appropriate unit of metric length.**

1. The hands on a clock



centimeters      meters

2. Trip on an airplane



meters      kilometers

4. How far you can throw a ball

millimeters      meters



5. Width of a string

millimeters      meters



## Let's try multiplication again.

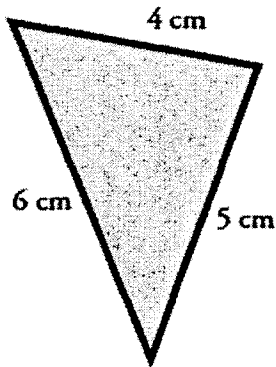
**Goal:** Solve all the problems correctly in under 2 minutes.

Directions: Have someone time you on the challenge below. Practice your multiplication flashcards and try the challenge again as you work through this packet.

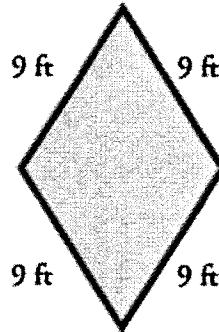
$9 \times 9 = \underline{\quad}$	$8 \times 8 = \underline{\quad}$	$7 \times 1 = \underline{\quad}$	$6 \times 1 = \underline{\quad}$	$9 \times 4 = \underline{\quad}$
$4 \times 4 = \underline{\quad}$	$9 \times 8 = \underline{\quad}$	$8 \times 7 = \underline{\quad}$	$9 \times 3 = \underline{\quad}$	$7 \times 2 = \underline{\quad}$
$6 \times 2 = \underline{\quad}$	$7 \times 3 = \underline{\quad}$	$9 \times 7 = \underline{\quad}$	$8 \times 6 = \underline{\quad}$	$5 \times 5 = \underline{\quad}$
$7 \times 4 = \underline{\quad}$	$9 \times 2 = \underline{\quad}$	$6 \times 3 = \underline{\quad}$	$9 \times 6 = \underline{\quad}$	$8 \times 5 = \underline{\quad}$
$9 \times 1 = \underline{\quad}$	$5 \times 4 = \underline{\quad}$	$6 \times 4 = \underline{\quad}$	$7 \times 5 = \underline{\quad}$	$9 \times 5 = \underline{\quad}$
$8 \times 4 = \underline{\quad}$	$4 \times 3 = \underline{\quad}$	$7 \times 6 = \underline{\quad}$	$6 \times 5 = \underline{\quad}$	$5 \times 3 = \underline{\quad}$
$4 \times 2 = \underline{\quad}$	$8 \times 3 = \underline{\quad}$	$5 \times 2 = \underline{\quad}$	$4 \times 1 = \underline{\quad}$	$6 \times 6 = \underline{\quad}$
$7 \times 7 = \underline{\quad}$	$5 \times 1 = \underline{\quad}$	$8 \times 2 = \underline{\quad}$	$3 \times 3 = \underline{\quad}$	$8 \times 1 = \underline{\quad}$

How many problems did you solve correctly in 2 minutes? \_\_\_\_\_

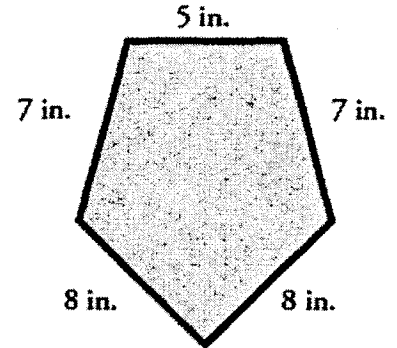
Find the perimeter (distance around) for each shape.



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

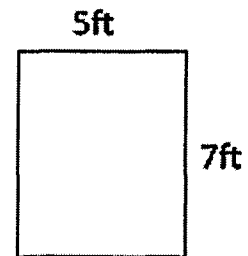
Find the area for each shape.

1.



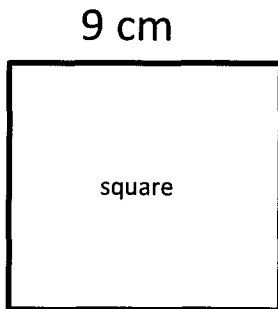
Area = \_\_\_\_\_ square cm

2.



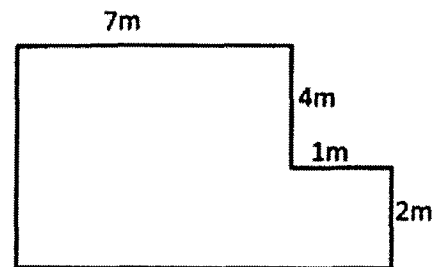
Area = \_\_\_\_\_ square ft

3.



Area = \_\_\_\_\_ square cm

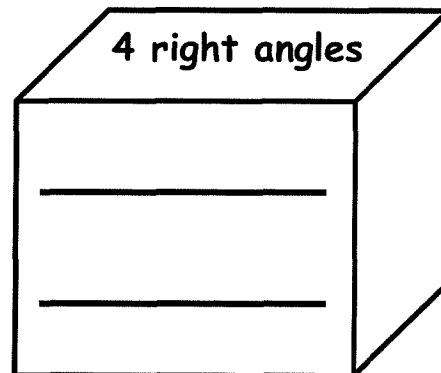
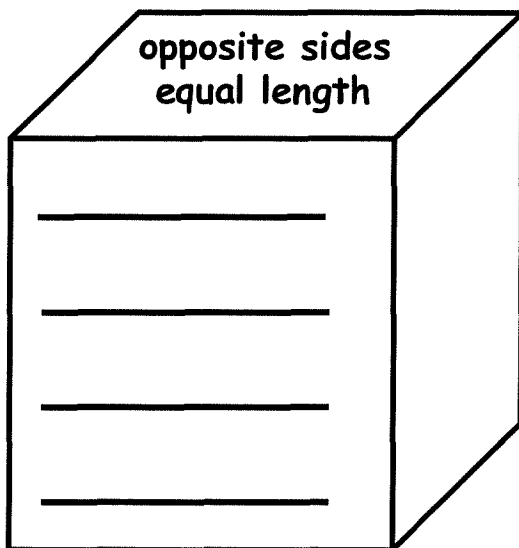
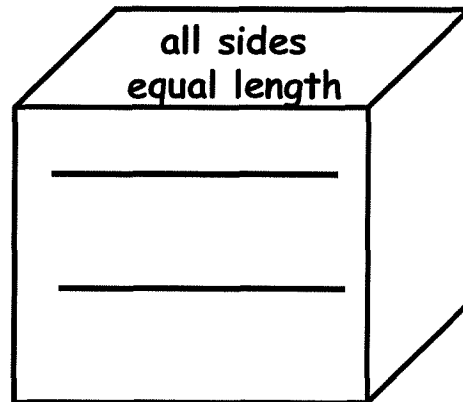
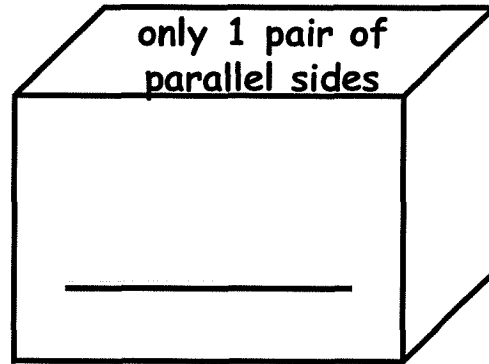
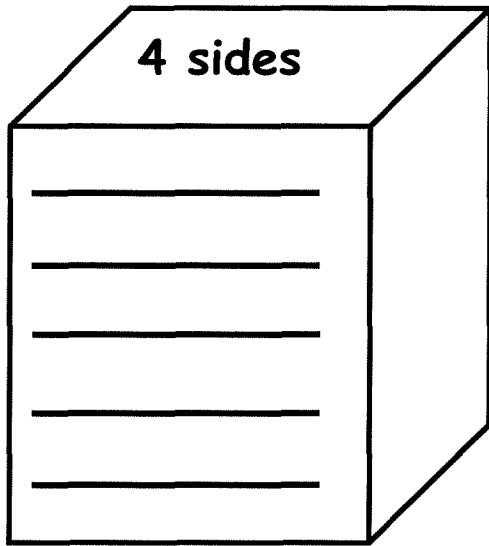
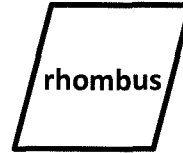
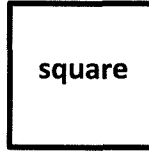
4.



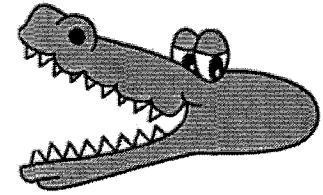
Area = \_\_\_\_\_ square m (m<sup>2</sup>)

\*Hint: Break the figure apart into 2 rectangles.

Write the names of the shapes in the boxes were they belong.



Compare the numbers. Use  $<$  or  $>$ .



$3,852 \square 1,705$

$2,527 \square 1,595$

$9,801 \square 5,224$

$1,552 \square 1,196$

$7,396 \square 3,575$

$6,109 \square 5,710$

$4,921 \square 5,825$

$4,118 \square 6,121$

$8,244 \square 4,710$

$5,403 \square 3,091$

Identify the rule and complete the pattern.

1. 7, 15, 23, \_\_\_\_\_, \_\_\_\_\_

Rule: \_\_\_\_\_

2. 48, 44, 40, \_\_\_\_\_, \_\_\_\_\_

Rule: \_\_\_\_\_

3. 7, 14, 21, \_\_\_\_\_, \_\_\_\_\_

Rule: \_\_\_\_\_

4. 2, 6, 18, 54

Rule: \_\_\_\_\_

5. 21, 18, 15, \_\_\_\_\_

Rule: \_\_\_\_\_



## Really Silly Word Problems

1. There are strange insects on Planet Zoog. Strange, but fast! The Pizbot can fly 145 miles an hour. The Waztail fly can fly 258 miles an hour. About how far can both insects travel in one hour?



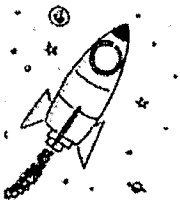
ANSWER:

2. Chef Crayzee was making his infamous pie á la bug. His special recipe called for 41 black ants, 52 beetles, 27 red ants and 16 flies to make one batch. How many bugs does he need in all?



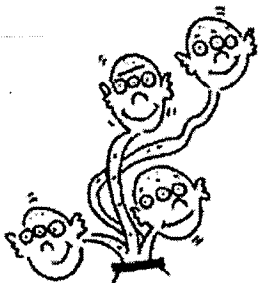
ANSWER:

3. The Martian exploratory force has 65 crew members. On the way to Earth they took a rest stop on the moon. 17 Martians stayed too long in the restroom and missed the rocket to Earth. How many Martians are on the rocket?



ANSWER:

4. Doodlewazzers have 3 eyes on each of their 4 heads. How many eyes does a Doodlewazzer have?

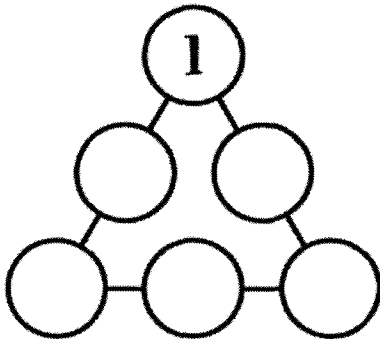


ANSWER:

# Math Brain Teasers

## GOING IN CIRCLES?

Fill in the circles with the numbers from 2 to 6 so that each side of the triangle adds up to 10.



## WHAT'S YOUR SIGN?

Fill in the missing + and - signs to make this equation true:

$$5 \bigcirc 4 \bigcirc 9 \bigcirc 3 \bigcirc 2 \bigcirc 1 = 4$$

## GIVE ME HALF

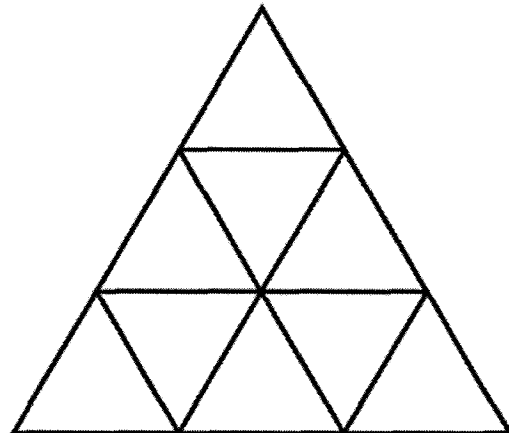
What is  $\frac{1}{2}$  of  $\frac{1}{2}$ ?

(Hint: Draw a picture!)

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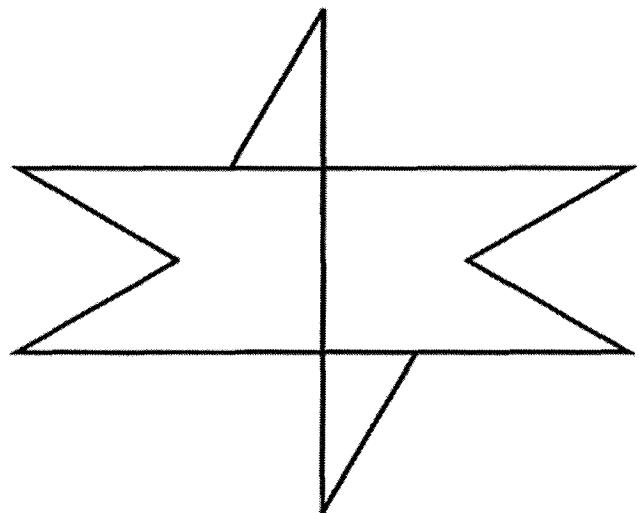
## "TRI" THIS

How many triangles are in this figure?



## SHAPE TRACE

Can you trace this figure without going over any lines?



\* Answers are on the last page.

# More Math Brain Teasers

## UPSIDE DOWN

What two-digit number reads the same upside down as it does right side up?

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## CATS IN LINE

One cat walked in front of two cats. One cat walked behind two cats. One cat walked between two cats. How many cats were there? (Hint: Draw a picture!)

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## CUTTING THE CAKE!

What is the fewest number of cuts you could make in order to cut a cake into six slices? (Hint: Draw a picture!)

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## NUMBER PATTERN

Here are the first five figures in a pattern. Draw the next figure.



## HOW MANY NUMBERS

Use the digits 5, 7, and 3. Write all the three-digit numbers you can make.

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\* Answers are on the last page. 35

Last Time: Did you master multiplication through 10 x 10?

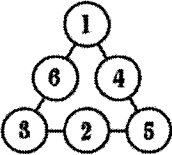
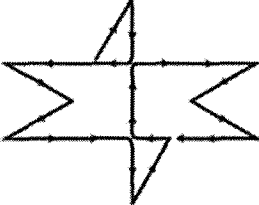

Goal: Solve all the problems in under 2 minutes.

Directions: Have someone time you on the challenge below.

$9 \times 9 = \underline{\quad}$	$8 \times 8 = \underline{\quad}$	$7 \times 1 = \underline{\quad}$	$6 \times 1 = \underline{\quad}$	$9 \times 4 = \underline{\quad}$
$4 \times 4 = \underline{\quad}$	$9 \times 8 = \underline{\quad}$	$8 \times 7 = \underline{\quad}$	$9 \times 3 = \underline{\quad}$	$7 \times 2 = \underline{\quad}$
$6 \times 2 = \underline{\quad}$	$7 \times 3 = \underline{\quad}$	$9 \times 7 = \underline{\quad}$	$8 \times 6 = \underline{\quad}$	$5 \times 5 = \underline{\quad}$
$7 \times 4 = \underline{\quad}$	$9 \times 2 = \underline{\quad}$	$6 \times 3 = \underline{\quad}$	$9 \times 6 = \underline{\quad}$	$8 \times 5 = \underline{\quad}$
$9 \times 1 = \underline{\quad}$	$5 \times 4 = \underline{\quad}$	$6 \times 4 = \underline{\quad}$	$7 \times 5 = \underline{\quad}$	$9 \times 5 = \underline{\quad}$
$8 \times 4 = \underline{\quad}$	$4 \times 3 = \underline{\quad}$	$7 \times 6 = \underline{\quad}$	$6 \times 5 = \underline{\quad}$	$5 \times 3 = \underline{\quad}$
$4 \times 2 = \underline{\quad}$	$8 \times 3 = \underline{\quad}$	$5 \times 2 = \underline{\quad}$	$4 \times 1 = \underline{\quad}$	$6 \times 6 = \underline{\quad}$
$7 \times 7 = \underline{\quad}$	$5 \times 1 = \underline{\quad}$	$8 \times 2 = \underline{\quad}$	$3 \times 3 = \underline{\quad}$	$8 \times 1 = \underline{\quad}$

How many problems did you solve correctly in 2 minutes?

# Answers to Brain Teasers

Going in Circles	
What's your sign?	$5 + 4 - 9 + 3 + 2 - 1 = 4$
Give Me Half	$\frac{1}{2}$ of $\frac{1}{2}$ is $\frac{1}{4}$ .
Tri Time	<p>13 triangles:            9 small (interior)            3 medium (interior)            1 large (the entire triangle)</p>
Shape Trace	
Upside Down	Answers include 11, 88, 69, and 96.
Cats in a Line	3 cats
Cutting the Cake	three cuts
Number Pattern	
How many numbers	573; 735; 357; 375; 753; 537

Congratulations!!

You have completed your summer packet and are better prepared for 4<sup>th</sup> grade math!

