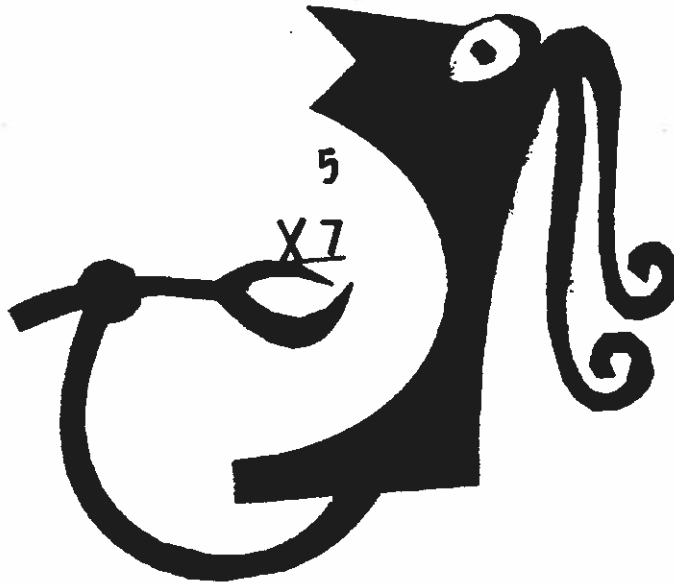


For Incoming Fourth Graders

# No BRAIN freeze, please!



*Edible Math for your summer enjoyment.*

- Multiplication and Division Speed Drills
- Puzzlers to chase away summer doldrums
- Challenges to keep your math skills sharp through the summer

TRAUT CORE KNOWLEDGE ELEMENTARY SCHOOL



**TRAUT CORE KNOWLEDGE SCHOOL**  
2515 Timberwood Drive  
Fort Collins, CO 80528

Dear Parents of Incoming Fourth Graders,

Enclosed you will find a mathematics packet called No Brain Freeze. This is a summer maintenance and review workbook that we would like all incoming fourth graders to complete over the duration of the summer.

Students who bring their completed workbooks back to school on the first day of classes (in August) will get to share a special lunch-time dessert with the teachers!

We have designed the No Brain Freeze workbook to be used for eight weeks – two pages per week. There is a Brain Buster and Speed Drill for each of these eight weeks. Each *Speed Drill* allows for more specific drill work with the basic multiplication and division facts. There is a graph on the last page so that your child can graph his/her results on the *Speed Drills*.

Your child is expected to know the basic multiplication and division facts up through the 12s upon entering fourth grade. The bulk of fourth grade mathematics centers on your child having mastery of these multiplication and division facts. Upon entering 4<sup>th</sup> grade, your child should be able to complete 15 multiplication facts, 20 addition facts, and 20 subtraction facts in 1 minute.

In the back of this workbook, you will find some fun practice sheets that your child may opt to do, if time allows. In addition, please remember to **READ, READ, READ** with your child over the summer. **Remember, reading is fundamental to academic success.**

Thanks for your support of skill maintenance. See you in August!

Ms. Artzer  
Mr. Wagner  
Mrs. Whitcomb

The TCKS Fourth Grade Teachers

# JUST THE FACTS

	2	3	4	5	6	7	8	9
2	4	6	8	10	12	14	16	18
3	6	9	12	15	18	21	24	27
4	8	12	16	20	24	28	32	36
5	10	15	20	25	30	35	40	45
6	12	18	24	30	36	42	48	54
7	14	21	28	35	42	49	56	63
8	16	24	32	40	48	56	64	72
9	18	27	36	45	54	63	72	81

**B****6****1**

Forty multiplication facts

**THE MAD MINUTE**

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

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

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

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

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

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

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

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

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

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

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

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

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

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

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

## Lesson 6 Addition and Subtraction

To check  $62 + 57 = 119$ ,  
 subtract 57 from 119.

$$\begin{array}{r} 62 \\ +57 \\ \hline 119 \\ -57 \\ \hline 62 \end{array}$$

These should be the same.

To check  $125 - 67 = 58$ ,  
 add 67 to 58.

$$\begin{array}{r} 125 \\ -67 \\ \hline 58 \\ +67 \\ \hline 125 \end{array}$$

These should be the same.

Add. Check each answer.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 42 \\ +25 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ +35 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ +64 \\ \hline \end{array}$	$\begin{array}{r} 26 \\ +47 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ +42 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ +35 \\ \hline \end{array}$

2.	$\begin{array}{r} 63 \\ +45 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ +56 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ +35 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ +25 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ +89 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ +95 \\ \hline \end{array}$
----	--	--	--	--	--	--

Subtract. Check each answer.

3.	$\begin{array}{r} 85 \\ -24 \\ \hline \end{array}$	$\begin{array}{r} 79 \\ -45 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ -39 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ -28 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ -48 \\ \hline \end{array}$
----	--	--	--	--	--	--

4.	$\begin{array}{r} 125 \\ -63 \\ \hline \end{array}$	$\begin{array}{r} 146 \\ -83 \\ \hline \end{array}$	$\begin{array}{r} 164 \\ -73 \\ \hline \end{array}$	$\begin{array}{r} 104 \\ -86 \\ \hline \end{array}$	$\begin{array}{r} 152 \\ -64 \\ \hline \end{array}$	$\begin{array}{r} 186 \\ -97 \\ \hline \end{array}$
----	---	---	---	---	---	---

**B****6****4**

Forty multiplication facts

**THE MAD MINUTE**

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

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

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

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

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

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

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

$$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

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

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

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

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

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

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

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

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

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

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

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



$$\begin{array}{r} 500 \\ - 278 \\ \hline \end{array}$$

$$\begin{array}{r} \overset{9}{\cancel{5}}\overset{10}{0}\overset{10}{0} \\ - 278 \\ \hline 222 \end{array}$$

Subtract.

1. 
$$\begin{array}{r} 890 \\ - 372 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 450 \\ - 187 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 3720 \\ - 1531 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 5950 \\ - 2164 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 7580 \\ - 2299 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 503 \\ - 24 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 904 \\ - 450 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 3209 \\ - 1189 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 9307 \\ - 8138 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 6304 \\ - 478 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 800 \\ - 458 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 300 \\ - 139 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 2400 \\ - 1421 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 9800 \\ - 6064 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 3200 \\ - 497 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 301 \\ - 114 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 900 \\ - 2 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 7605 \\ - 2947 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 2400 \\ - 253 \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 6900 \\ - 6175 \\ \hline \end{array}$$

Scoreboard												
Minutes	19	20	21	22	23	24	25	26	27	28	29	Number Right _____

**B****6****3**

Forty multiplication facts

**THE MAD MINUTI**

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

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

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

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

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

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

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

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

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

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

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

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

$$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

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

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

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

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

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

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

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

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

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

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

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

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

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

# Working with Decimals

Adding and subtracting decimals is easy! Don't forget to put in the decimal point! After you've found the answer, mark it on the correct place on the metric ruler. The first one is done for you.

.....

1. 
$$\begin{array}{r} 2.3 \\ + 6.7 \\ \hline 9.0 \end{array}$$

2. 
$$\begin{array}{r} 5.4 \\ + 1.2 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 2.5 \\ + 5.8 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 1.9 \\ + 4.5 \\ \hline \end{array}$$

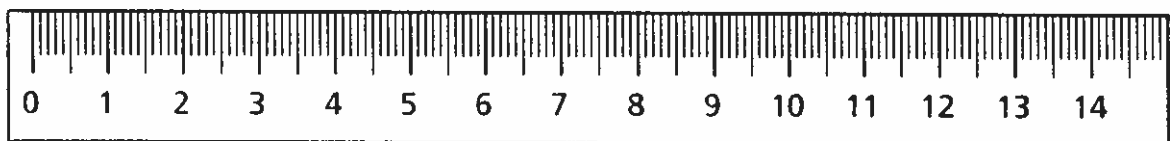


5. 
$$\begin{array}{r} 2.3 \\ + 6.7 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 2.70 \\ + 1.65 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 4.52 \\ + 2.57 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 8.99 \\ + 1.09 \\ \hline \end{array}$$

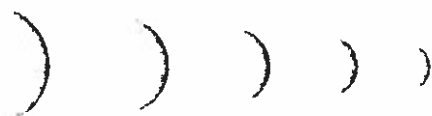
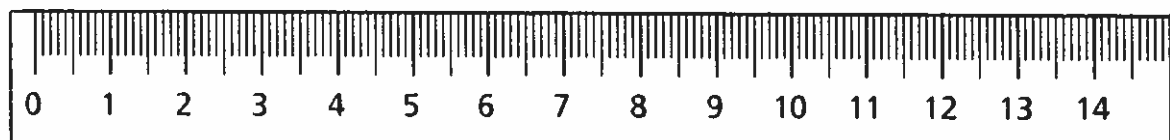


9. 
$$\begin{array}{r} 7.4 \\ - 3.0 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 8.4 \\ - 6.4 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 5.7 \\ - 4.2 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 4.5 \\ - 3.5 \\ \hline \end{array}$$



Name: \_\_\_\_\_

50 Points Score: \_\_\_\_\_

## Math Facts

$\begin{array}{r} 6 \\ x 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ x 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ x 12 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ x 7 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ x 8 \\ \hline \end{array}$
$\begin{array}{r} 12 \\ x 3 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ x 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ x 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ x 9 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ x 7 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ x 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ x 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ x 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ x 6 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ x 12 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ x 8 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ x 9 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ x 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ x 12 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ x 9 \\ \hline \end{array}$
$\begin{array}{r} 12 \\ x 9 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ x 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ x 7 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ x 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ x 7 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ x 12 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ x 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ x 6 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ x 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ x 8 \\ \hline \end{array}$
$\begin{array}{r} 5 \\ x 8 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ x 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ x 7 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ x 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ x 2 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ x 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ x 8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ x 12 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ x 7 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ x 11 \\ \hline \end{array}$
$\begin{array}{r} 12 \\ x 2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ x 9 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ x 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ x 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ x 2 \\ \hline \end{array}$
$\begin{array}{r} 9 \\ x 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ x 11 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ x 8 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ x 12 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ x 3 \\ \hline \end{array}$

# Find the Pattern

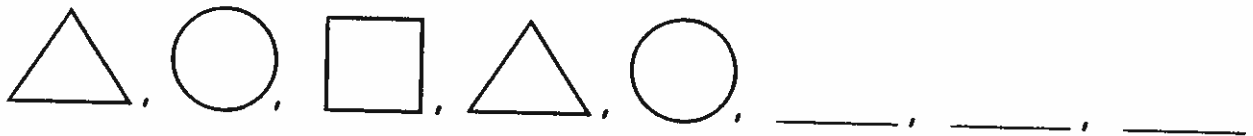
A. In this pattern, what three numbers would come next?

2, 4, 8, 16, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

B. In this pattern, what three numbers would come next?

12, 10, 8, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

C. Draw the next three shapes in this pattern.



D. Identify the next three fractions in this pattern.

$\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ , \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

E. In this pattern, what three numbers would come next?

10, 21, 32, 43, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**C****6****4**

Forty division facts

**THE MAD MINUTE**

$6 \overline{)24}$

$9 \overline{)18}$

$5 \overline{)45}$

$6 \overline{)48}$

$8 \overline{)24}$

$9 \overline{)63}$

$8 \overline{)0}$

$7 \overline{)14}$

$4 \overline{)4}$

$8 \overline{)72}$

$3 \overline{)15}$

$7 \overline{)56}$

$8 \overline{)32}$

$3 \overline{)9}$

$3 \overline{)21}$

$9 \overline{)27}$

$6 \overline{)18}$

$7 \overline{)42}$

$7 \overline{)21}$

$6 \overline{)30}$

$8 \overline{)64}$

$6 \overline{)12}$

$9 \overline{)9}$

$9 \overline{)45}$

$4 \overline{)24}$

$5 \overline{)20}$

$2 \overline{)18}$

$6 \overline{)36}$

$6 \overline{)54}$

$9 \overline{)81}$

$7 \overline{)35}$

$9 \overline{)54}$

$4 \overline{)0}$

$8 \overline{)16}$

$3 \overline{)27}$

$9 \overline{)72}$

$7 \overline{)28}$

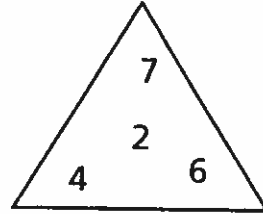
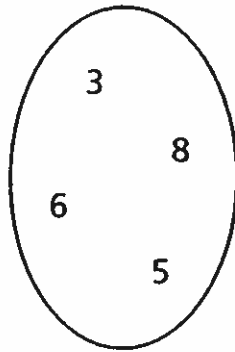
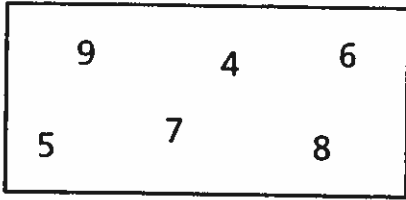
$6 \overline{)42}$

$9 \overline{)36}$

$7 \overline{)63}$

# What Number Am I?

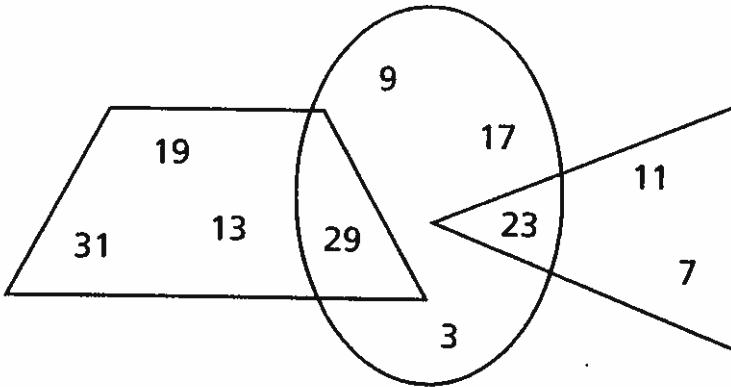
**A.**



I am in the triangle.  
 I am in the rectangle.  
 I am not in the oval.  
 I am an even number.

What number am I? \_\_\_\_\_

**B.**



I am a prime number.  
 I am larger than 10 and smaller than 25.  
 I am in the oval.  
 I am not in the triangle.

What number am I? \_\_\_\_\_

C

6

2

Forty division facts

THE MAD MINUTE

$$\begin{array}{l} 3 \overline{)12} \quad 6 \overline{)12} \quad 3 \overline{)18} \quad 7 \overline{)7} \quad 9 \overline{)45} \quad 5 \overline{)10} \quad 9 \overline{)27} \quad 9 \overline{)54} \quad 6 \overline{)48} \quad 7 \overline{)49} \end{array}$$

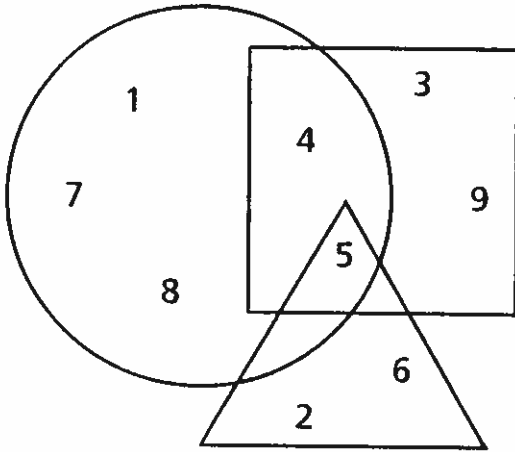
$$\begin{array}{l} 5 \overline{)45} \quad 5 \overline{)40} \quad 8 \overline{)8} \quad 6 \overline{)42} \quad 7 \overline{)63} \quad 9 \overline{)18} \quad 4 \overline{)0} \quad 8 \overline{)48} \quad 5 \overline{)15} \quad 7 \overline{)14} \end{array}$$

$$\begin{array}{l} 8 \overline{)24} \quad 9 \overline{)36} \quad 7 \overline{)35} \quad 5 \overline{)30} \quad 8 \overline{)72} \quad 7 \overline{)0} \quad 9 \overline{)63} \quad 6 \overline{)18} \quad 4 \overline{)24} \quad 8 \overline{)40} \end{array}$$

$$\begin{array}{l} 6 \overline{)54} \quad 2 \overline{)16} \quad 8 \overline{)16} \quad 9 \overline{)81} \quad 3 \overline{)21} \quad 7 \overline{)28} \quad 4 \overline{)32} \quad 6 \overline{)30} \quad 8 \overline{)32} \quad 5 \overline{)20} \end{array}$$

# Find a Number

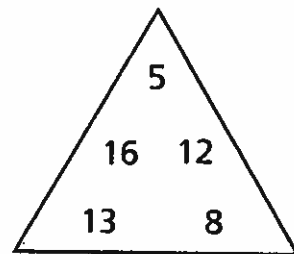
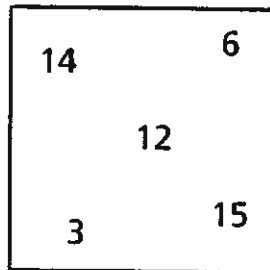
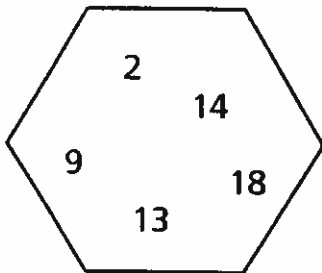
A.



I am an even number.  
 I am less than 5.  
 I am in the square.

What number am I? \_\_\_\_\_

B.



I am an even number.  
 I am larger than 10.  
 I am not in the triangle.  
 I am in the square.  
 I am also in the hexagon.

What number am I? \_\_\_\_\_

$$\begin{array}{r} 5 \overline{)30} \\ 6 \overline{)6} \\ 8 \overline{)48} \\ 9 \overline{)36} \\ 4 \overline{)24} \\ 9 \overline{)27} \\ 9 \overline{)45} \\ 7 \overline{)63} \\ 5 \overline{)35} \\ 9 \overline{)0} \end{array}$$

$$\begin{array}{r} 9 \overline{)54} \\ 4 \overline{)8} \\ 7 \overline{)14} \\ 3 \overline{)21} \\ 8 \overline{)64} \\ 6 \overline{)24} \\ 4 \overline{)20} \\ 5 \overline{)20} \\ 6 \overline{)18} \\ 6 \overline{)42} \end{array}$$

$$\begin{array}{r} 8 \overline{)8} \\ 6 \overline{)30} \\ 3 \overline{)9} \\ 8 \overline{)72} \\ 8 \overline{)40} \\ 5 \overline{)0} \\ 7 \overline{)28} \\ 6 \overline{)48} \\ 3 \overline{)6} \\ 2 \overline{)14} \end{array}$$

$$\begin{array}{r} 9 \overline{)18} \\ 7 \overline{)42} \\ 8 \overline{)16} \\ 2 \overline{)8} \\ 2 \overline{)16} \\ 6 \overline{)54} \\ 9 \overline{)72} \\ 9 \overline{)81} \\ 3 \overline{)24} \\ 7 \overline{)35} \end{array}$$

# Measure Up a Magic Square

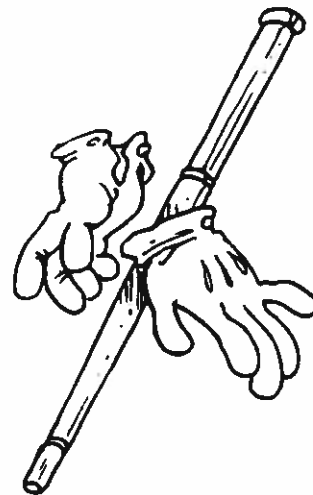


Write the number in the box that answers each question below. If you answered correctly, the sum in each row, column, and diagonal will be the same.



a.	b.	c.
d.	e.	f.
g.	h.	i.

- a. Number of pints in 1 quart
- b. Number of feet equal to 3 yards
- c. Number of quarts equal to 1 gallon
- d. Number of tablespoons equal to 21 teaspoons
- e. Number of yards equal to 15 feet
- f. Number of cups in one and one-half pints
- g. Number of feet equal to 2 yards
- h. Number of gallons equal to 4 quarts
- i. Number of ounces equal to one-half pound



What is the sum of the answers in each row, column, and diagonal? \_\_\_\_\_

# SPEED DRILL #1



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

$$3 \overline{) 0}$$

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

$$6 \overline{) 24}$$

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

$$4 \overline{) 4}$$

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

$$6 \overline{) 42}$$

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

$$7 \overline{) 63}$$

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

$$8 \overline{) 16}$$

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

$$6 \overline{) 36}$$

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

$$9 \overline{) 0}$$

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

$$5 \overline{) 40}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

$$5 \overline{) 0}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$9 \overline{) 9}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$2 \overline{) 16}$$

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

$$9 \overline{) 54}$$

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

$$4 \overline{) 28}$$

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

$$9 \overline{) 72}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$5 \overline{) 40}$$

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

$$8 \overline{) 24}$$

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

$$8 \overline{) 72}$$

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

$$7 \overline{) 35}$$

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

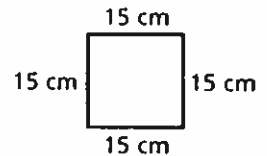
$$9 \overline{) 54}$$

# Perimeter in the Home

SHOW ME THE WAY

Perimeter is the distance around a figure. You find the perimeter by adding together the lengths of the sides.

- A. Lilley's grandmother is teaching her to make a quilt. The sides of her squares are each 15 centimeters. What is the perimeter of each quilt square?



## Strategic Step

- 1 To find the perimeter, you add together the lengths of the sides. Since all four sides of a square are equal lengths, you can take the length and multiply by 4.

$$15 \text{ centimeters} \times 4 = \underline{\hspace{2cm}} \text{ centimeters}$$

- B. Kayla is baking a sheet cake for a party. She wants to put a decorative edge along the bottom of the cake. She has approximately 40 inches of icing left. If the cake is a rectangle with one side 9 inches and the other side 14 inches, will she have enough icing to add the decorative edge?

## Strategic Steps

- 1 First, find the perimeter of the cake. To find the perimeter of a rectangle you add together the four sides. In this case, you know that the short sides are 9 inches and the long sides are 14 inches. Add those numbers together, and then multiply by 2.

$$9 \text{ inches} + 14 \text{ inches} = \underline{\hspace{2cm}} \text{ inches}$$

$$\underline{\hspace{2cm}} \text{ inches} \times 2 = \underline{\hspace{2cm}} \text{ inches (perimeter of the cake)}$$

- 2 Then, compare the perimeter of the cake with 40 inches. If it is smaller than 40 inches, Kayla has enough icing. If it is longer than 40 inches, she does not have enough icing.

# SPEED DRILL #2

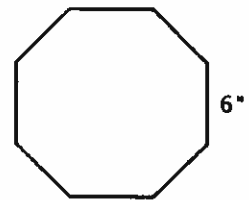


$\begin{array}{r} 5 \overline{)40} \end{array}$	$\begin{array}{r} 6 \overline{)42} \end{array}$	$\begin{array}{r} 8 \\ \times 2 \end{array}$	$\begin{array}{r} 9 \overline{)18} \end{array}$	$\begin{array}{r} 3 \\ \times 6 \end{array}$
$\begin{array}{r} 6 \\ \times 2 \end{array}$	$\begin{array}{r} 8 \overline{)48} \end{array}$	$\begin{array}{r} 7 \overline{)14} \end{array}$	$\begin{array}{r} 9 \\ \times 7 \end{array}$	$\begin{array}{r} 9 \overline{)36} \end{array}$
$\begin{array}{r} 7 \overline{)0} \end{array}$	$\begin{array}{r} 8 \\ \times 3 \end{array}$	$\begin{array}{r} 5 \overline{)30} \end{array}$	$\begin{array}{r} 6 \\ \times 7 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \end{array}$
$\begin{array}{r} 6 \overline{)18} \end{array}$	$\begin{array}{r} 8 \overline{)40} \end{array}$	$\begin{array}{r} 2 \overline{)16} \end{array}$	$\begin{array}{r} 9 \\ \times 7 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \end{array}$
$\begin{array}{r} 8 \\ \times 8 \end{array}$	$\begin{array}{r} 7 \overline{)28} \end{array}$	$\begin{array}{r} 4 \\ \times 9 \end{array}$	$\begin{array}{r} 9 \overline{)81} \end{array}$	$\begin{array}{r} 7 \\ \times 2 \end{array}$
$\begin{array}{r} 9 \overline{)54} \end{array}$	$\begin{array}{r} 0 \\ \times 4 \end{array}$	$\begin{array}{r} 7 \overline{)49} \end{array}$	$\begin{array}{r} 5 \overline{)20} \end{array}$	$\begin{array}{r} 6 \overline{)30} \end{array}$
$\begin{array}{r} 6 \\ \times 9 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \end{array}$	$\begin{array}{r} 5 \overline{)10} \end{array}$	$\begin{array}{r} 8 \\ \times 7 \end{array}$	$\begin{array}{r} 7 \overline{)7} \end{array}$
$\begin{array}{r} 9 \\ \times 8 \end{array}$	$\begin{array}{r} 6 \overline{)12} \end{array}$	$\begin{array}{r} 4 \\ \times 8 \end{array}$	$\begin{array}{r} 0 \\ \times 6 \end{array}$	$\begin{array}{r} 3 \\ \times 4 \end{array}$

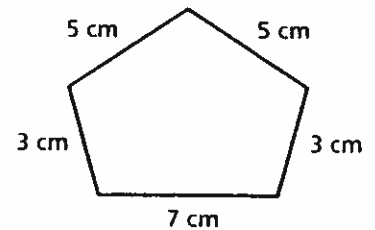
# Mr. Dennis's Assignment

You can determine the perimeter of all different shapes. Mr. Dennis asked his class to find a shape in their home or on the way home from school and find the perimeter of the item.

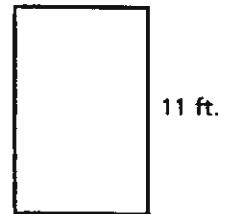
- A.** Joy measured a stop sign and discovered that all eight sides were 6 inches long. What is the perimeter of the stop sign?



- B.** Khaliq measured a box that his dad keeps on his desk. The box has five sides that measure 5 centimeters, 3 centimeters, 7 centimeters, 3 centimeters, and 5 centimeters. What is the perimeter of the box?



- C.** Kaitlin measured her bedroom. The width is 2 feet shorter than the length. The length of Kaitlin's bedroom is 11 feet. What is the perimeter of Kaitlin's room?



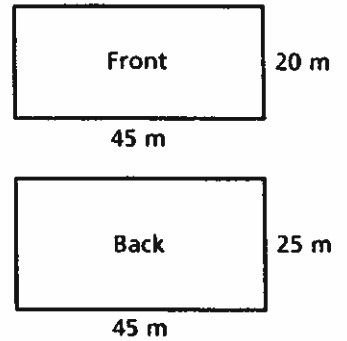
- D.** Todd measured the patio and discovered that the length is 3 feet more than the width. The width of the patio is 15 feet. What is the perimeter of the patio?



# What Is the Area?

The area of a shape is the amount of space the shape covers. The area is determined by multiplying the length times the width of the shape.

- A.** Rose wants to compare the area of her front yard and backyard. The front yard has a length of 45 meters and a width of 20 meters. The backyard has a length of 45 meters and a width of 25 meters.



What is the area of the front yard? \_\_\_\_\_

What is the area of the backyard? \_\_\_\_\_

How many more square meters does the larger yard have? \_\_\_\_\_

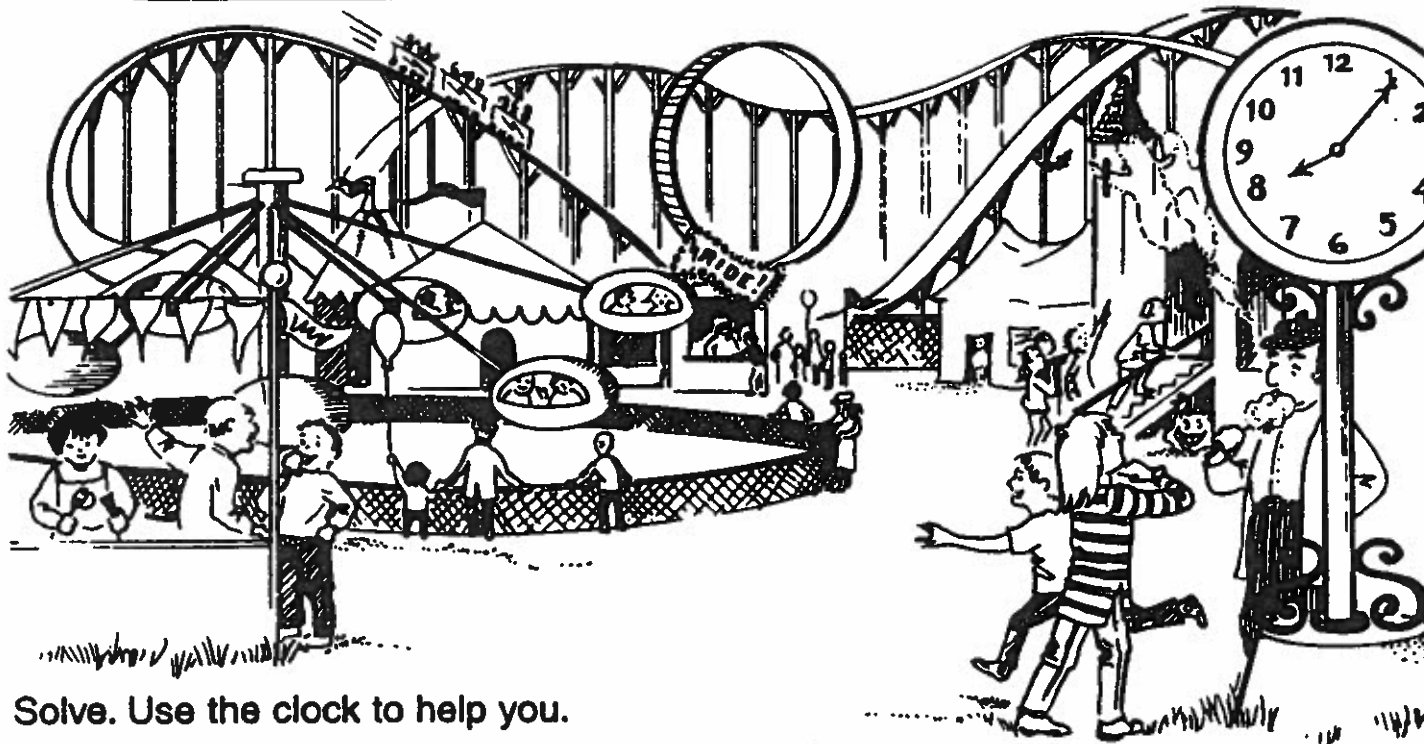
- B.** Elizabeth wants to make carpeting to go in the living room of the dollhouse she is building. The room measures 8 inches by 7 inches. What is the area she needs to cover?

- C.** Juan wants to replace the rectangular concrete patio in the backyard. It measures 14 feet on one side and 15 feet on the next side. Each bag of concrete will cover an area of 10 square feet. How many bags does Juan need to buy?

# At the Carnival

Elapsed Time

Name \_\_\_\_\_



Solve. Use the clock to help you.

1. The carnival opens at 5:30 p.m. and closes at 10:00 p.m. How long is the carnival open? \_\_\_\_\_
2. Jim got on the roller coaster ride at 6:05 p.m. It lasted for 15 minutes. When did Jim get off? \_\_\_\_\_
3. Mary wanted to win a stuffed animal. She started trying at 8:30. She finally won 1 hour and 15 minutes later. At what time did Mary win a stuffed animal? \_\_\_\_\_
4. Sam was dizzy when he got off the twister ride at 7:20. If the ride lasted 25 minutes, at what time did Sam get on the ride? \_\_\_\_\_
5. Sally missed the 6:10 race car ride by 5 minutes. The next race car ride starts at 6:40. How long will Sally have to wait? \_\_\_\_\_
6. Jenny arrived at the carnival at 7:35. It took her 1 hour and 5 minutes to get there. At what time did Jenny leave her house? \_\_\_\_\_
7. A group of kids got lost in the haunted house. The kids went into the house at 5:45 and didn't come out until 6:20! How long were they in the haunted house? \_\_\_\_\_
8. Cleaning up after the carnival took 1 hour and 55 minutes. The cleanup crew finished at 11:30. What time did the crew begin? \_\_\_\_\_

Write the correct answer.

1. Write the value of the 4 in 4,108.

\_\_\_\_\_

2. Compare the numbers. Write  $<$ ,  $>$ , or  $=$  for the  $\bullet$ .

$$5,164 \bullet 5,163$$

\_\_\_\_\_

3. Write  $+$  or  $-$  to complete the number sentence.

$$183 \bullet 25 = 158$$

\_\_\_\_\_

4. 
$$\begin{array}{r} 306 \\ - 59 \\ \hline \end{array}$$

\_\_\_\_\_

5. Write the amount.



\_\_\_\_\_

6. 
$$\begin{array}{r} \$5.73 \\ - \$2.85 \\ \hline \end{array}$$

\_\_\_\_\_

For 7, use the schedule.

7. Which activity lasts 40 minutes?

ACTIVITY	TIME
Painting	12:30 P.M. – 1:15 P.M.
Basketball	1:15 P.M. – 2:15 P.M.
Recess	2:15 P.M. – 2:30 P.M.
Music	2:30 P.M. – 3:10 P.M.

\_\_\_\_\_

8. Joel and his brother each eat 5 carrot sticks. How many carrot sticks do they eat in all?

\_\_\_\_\_

9. 
$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

\_\_\_\_\_

10. Compare. Write  $<$ ,  $>$ , or  $=$  for the  $\bullet$ .

$$4 \times 1 \bullet 8 \times 0$$

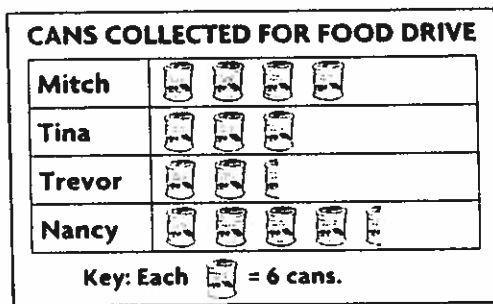
\_\_\_\_\_

11. There are 6 gel pens in each package. How many gel pens are in 4 packages?

\_\_\_\_\_

12. \_\_\_\_\_ =  $7 \times 8$

For 13, use the pictograph.



13. How many more cans of food did Mitch collect than Trevor?

\_\_\_\_\_

14. Write a rule for the table.

Insects	1	2	3	4	5
Legs	6	12	18	24	30

\_\_\_\_\_

15. At the picnic, sandwiches cost \$3 and salads cost \$2. How much would it cost to buy 4 sandwiches and 6 salads?

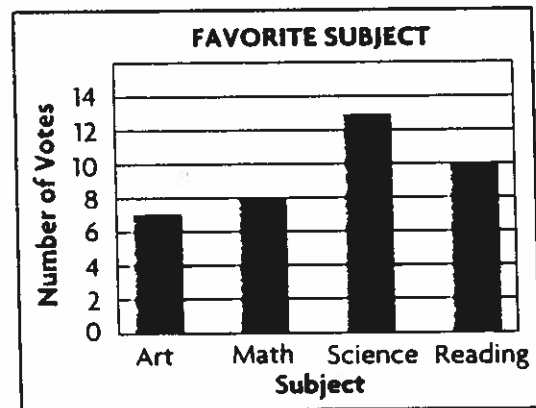
\_\_\_\_\_

16. Find the missing factor and quotient.

$4 \times \underline{\hspace{2cm}} = 28$        $28 \div 4 = \underline{\hspace{2cm}}$

17.  $36 \div 4 = \underline{\hspace{2cm}}$

For 18–19, use the bar graph.



18. Which subject got the greatest number of votes?

\_\_\_\_\_

19. How many more votes were for science than for reading?

\_\_\_\_\_

20. Choose the unit you would use to measure the length of a soccer field? Write inch, foot, yard, or mile.

\_\_\_\_\_

21. Circle the word that describes a triangle with no equal sides.

scalene      equilateral      isosceles

22. Circle the quadrilateral that has 4 right angles.



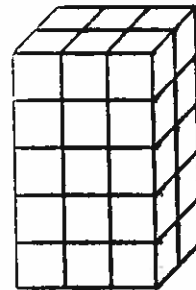
23. Circle the name of the solid figure that has exactly 6 faces.

cube      square pyramid      sphere

24. Manuel has 24 feet of fencing to build a habitat for his turtle. If he wants the greatest possible area, how long and wide should the sides of the habitat area be?

\_\_\_\_\_ feet long      \_\_\_\_\_ feet wide

25. What is the volume of the figure?

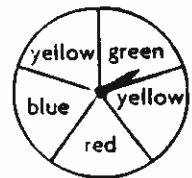


\_\_\_\_\_ cubic units

26. Write a rule for the pattern.

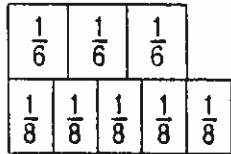
420, 402, 384, 366, 348, 330

27. Which color are you most likely to spin?



28. Erin is arranging her teapots on a shelf. She has a blue teapot, a white teapot, and a silver teapot. How many different ways can Erin arrange the teapots?

29. Compare. Write  $<$ ,  $>$ , or  $=$  in the  $\bigcirc$ .



$$\frac{3}{6} \bigcirc \frac{5}{8}$$

30. Find the sum in simplest form.

$$\frac{1}{6} + \frac{1}{6} = \underline{\hspace{2cm}}$$

31. Find the difference in simplest form.

$$\frac{7}{8} - \frac{3}{8} = \underline{\hspace{2cm}}$$

32. Write  $\frac{8}{10}$  as a decimal.

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33. Write the decimals in order from least to greatest.

0.8, 0.4, 0.6

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34. 
$$\begin{array}{r} 0.43 \\ + 2.16 \\ \hline \end{array}$$

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35. Natalia reads for 35 minutes each day. How many minutes does she read in 6 days?

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36. A group of 58 students is going to the planetarium. Each van can hold 8 students. How many vans does the group need?

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