

## 6<sup>th</sup> Grade Math Exit Test

### Whole Numbers

Place Value: Using the diagram below, write the place value of the **bold red underlined** digit.

## Decimal PLACE VALUES

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
6	5	4	3	2	1	0	.	1	2	3	4

- |   |                                     |
|---|-------------------------------------|
| 1. 26,278. <b><u>9</u></b> 52 _____                 | 4. 3 <b><u>0</u></b> ,615.441 _____ |
| 2. 9,258, <b><u>9</u></b> 0.07 _____                | 5. 3 <b><u>6</u></b> 3.354 _____    |
| 3. 5,363,953. <b><u>5</u></b> <b><u>2</u></b> _____ | 6. 9,54 <b><u>7</u></b> .16 _____   |

### Add and Subtract Whole Numbers:

- |   |   |  |   |   |
|---|---|--|---|---|
| 1. $\begin{array}{r} 4975 \\ + 935 \\ \hline \end{array}$ | 2. $\begin{array}{r} 2533 \\ - 334 \\ \hline \end{array}$ | 3. $\begin{array}{r} 2274 \\ + 22 \\ \hline \end{array}$ | 4. $\begin{array}{r} 22564 \\ - 4428 \\ \hline \end{array}$ | 5. $\begin{array}{r} 3337 \\ + 227 \\ \hline \end{array}$ |
|---|---|--|---|---|

### Roman Numerals: Write the correct Roman numeral for each one below.

- |                |                  |                   |
|----------------|------------------|-------------------|
| 1. five _____  | 4. Three _____   | 7. Fourteen _____ |
| 2. seven _____ | 5. Ten _____     | 8. Six _____      |
| 3. two _____   | 6. Fifteen _____ | 9. Nine _____     |

### MULTIPLICATION

- |   |   |   |   |  |
|---|---|---|---|--|
| 1. $\begin{array}{r} 3573 \\ \times 32 \\ \hline \end{array}$ | 2. $\begin{array}{r} 396 \\ \times 3 \\ \hline \end{array}$ | 3. $\begin{array}{r} 3567 \\ \times 26 \\ \hline \end{array}$ | 4. $\begin{array}{r} 7352 \\ \times 54 \\ \hline \end{array}$ | 5. $\begin{array}{r} 3749 \\ \times 3 \\ \hline \end{array}$ |
|---|---|---|---|--|

## DIVISION

1.  $3 \overline{) 60}$

2.  $4 \overline{) 208}$

3.  $8 \overline{) 624}$

**TIME:** Write the correct time for each of the following

1.



2.



3.



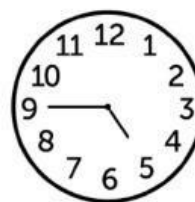
4.



5.



6.



**Elapsed Time:**

1. What time will it be in 25 minutes?



2. What time will it be in 10 minutes?



3. What time will it be in 15 minutes?



## Units of Time

- 1 )  Minutes = 1/2 Hour
- 2 ) 52 Weeks =  Year
- 3 )  Minutes = 1/4 Hour
- 4 ) 7  = 1 Week
- 5 ) 60 Minutes = 1
- 6 ) 24  = 1 Day
- 7 ) 52 Weeks = 1
- 8 ) 52  = 1 Year
- 9 ) 1  = 60 Seconds
- 10 ) 1 Minute = 60

## DECIMALS: Adding and Subtracting

$$\begin{array}{r} 1. \quad 3.55 \\ + .32 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 35.32 \\ - 2.29 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 83.51 \\ - 33.18 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 283.42 \\ + 68.24 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 3384.53 \\ + 287.38 \\ \hline \end{array}$$

## FRACTIONS:

Improper Fractions: Converting Improper fractions to mixed numbers

$$1) \quad \frac{7}{3} = \underline{\quad} \frac{\square}{\square} \quad 2) \quad \frac{36}{7} = \underline{\quad} \frac{\square}{\square} \quad 3) \quad \frac{44}{10} = \underline{\quad} \frac{\square}{\square}$$

Equivalent Fractions: Write the correct number to make the fractions equal

1.

$$\frac{1}{3} = \frac{\square}{9}$$

2.

$$\frac{3}{4} = \frac{6}{\square}$$

3.

$$\frac{1}{3} = \frac{\square}{9}$$

4.

$$\frac{6}{12} = \frac{1}{\square}$$

### Adding and Subtracting Fractions with Different Demoninators

1.  $\frac{2}{3} + \frac{1}{2} =$

3.  $\frac{1}{5} + \frac{2}{4} =$

2.  $\frac{2}{5} + \frac{1}{10} =$

4.  $\frac{3}{5} + \frac{3}{8} =$

### Simplest Form: Write the correct mixed numbers from these improper fractions

$\frac{46}{4}$

$\frac{62}{4}$

$\frac{70}{3}$

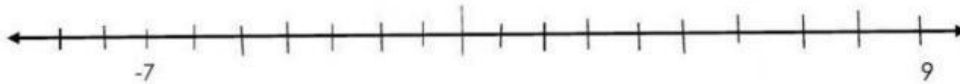
$\frac{60}{2}$

$\frac{69}{2}$

$\frac{83}{4}$

### INTEGERS:

a. Label these integers on the number line below. -6, 8, -9, 0, 2, -2



b. Write the opposite integer for the numbers below.

+19

-46

-61

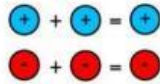
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c. Arrange the following integers in descending order.

-5	3	10	-7	2
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### Adding Integers



### Adding Integers

1)  $-6 + -2 =$

2)  $-4 + -3 =$

3)  $-9 + -2 =$

4)  $5 + 8 =$

5)  $-4 + -4 =$

### Comparing Integers: Order the integers below from least to greatest

	least
247	<input type="text"/>
-26	<input type="text"/>
855	<input type="text"/>
400	<input type="text"/>
-716	<input type="text"/>
157	<input type="text"/>
	greatest

	least
-390	<input type="text"/>
724	<input type="text"/>
-762	<input type="text"/>
-24	<input type="text"/>
43	<input type="text"/>
245	<input type="text"/>
	greatest

### THE DISTRIBUTIVE PROPERTY:

Fill in each  with  $<$ ,  $>$ , or  $=$  to make a true statement.

1.  $-5$    $-55$

2.  $4$    $-66$

3.  $-777$    $-77$

4.  $-75$    $-75$

5.  $-898$    $-99$

6.  $0$    $44$

### How Do I Remember It All ... ? PEMDAS !

### Order of Operations

- P** Parentheses first
- E** Exponents (ie Powers and Square Roots, etc.)
- MD** Multiplication and Division (left-to-right)
- AS** Addition and Subtraction (left-to-right)

Evaluate the expressions below using PEMDAS. Type your final answer in the box.

(A)  $(9 + 7) \times 4 - 12 =$

(B)  $12 + 36 \div 4 - 16 =$

(C)  $9 \div 3 + 4 \times 6 =$

(D)  $8 \times 18 \div 4 + 15 =$

(E)  $(67 - 18) \div 7 \times 8 =$

(F)  $52 - 8 \times 5 \div 2 =$



## PERCENTS, RATIOS, AND RATES

State the percentage.

 $\frac{\boxed{\phantom{00}}}{100} = \boxed{\phantom{00}}\%$	 $\frac{\boxed{\phantom{00}}}{100} = \boxed{\phantom{00}}\%$
 $\frac{\boxed{\phantom{00}}}{100} = \boxed{\phantom{00}}\%$	 $\frac{\boxed{\phantom{00}}}{100} = \boxed{\phantom{00}}\%$

Solve the following:

1. Find 15% of \$360.

$$15\% = \frac{\boxed{\phantom{00}}}{100}$$

$$\$360 \times \frac{\boxed{\phantom{00}}}{100} = \boxed{\phantom{00}}$$

2. Find 32% of \$480.

$$32\% = \frac{\boxed{\phantom{00}}}{100}$$

$$\$480 \times \frac{\boxed{\phantom{00}}}{100} = \boxed{\phantom{00}}$$

Write the ratio in three different ways.

1) books to pens



Words :

Ratio :

Fraction :

2) pumpkins to cabbages



Words :

Ratio :

Fraction :

## Unit Rates



Find the unit rate	Answer
<b>Example:</b> 800 words per 4 minutes	<b>Example:</b> ( 800 ÷ 4 ) 200 words per minute
a) 120 flights per 4 hours	<input type="text"/> flights per hour
b) 147 kilometres in 7 hours	<input type="text"/> kilometres per hour
c) 60 calls in 12 hours	<input type="text"/> calls per hour

## MONEY:

You have **\$10.00** to spend. Decide with each scenario if you have enough money to purchase the items and how much change you will get.

Cost of items

Pick the correct answer

1 cheeseburger \$1.59 1 small fry \$.79 1 small drink \$1.29 <input type="text"/>		I don't have enough \$\$ <input type="text"/> \$6.33 in change <input type="text"/> \$5.99 in change <input type="text"/> \$3.67 in change
2 cheeseburgers \$1.59 <input type="text"/> 1 large fry \$1.39 1 large drink \$1.39 <input type="text"/>		I don't have enough \$\$ <input type="text"/> \$1.87 in change <input type="text"/> \$5.96 in change <input type="text"/> \$4.04 in change

## Multiply.

1.  $\begin{array}{r} \$0.63 \\ \times 3 \\ \hline \end{array}$

2.  $\begin{array}{r} \$0.72 \\ \times 8 \\ \hline \end{array}$

3.  $\begin{array}{r} \$0.16 \\ \times 4 \\ \hline \end{array}$

4.  $\begin{array}{r} \$0.49 \\ \times 2 \\ \hline \end{array}$

Adam buys an eraser and a pen. He gives the storekeeper a \$1 bill. How much change should Adam receive?

School Store Supplies	
Pens 29¢	Pads 56¢
Pencils 6¢	Notebooks 89¢
Erasers 49¢	Highlighters 89¢

Nancy has \$4.25. She wants to buy 7 notebooks and 3 pens. How much more money does Nancy need?

Solve each problem. Show all working in your Math notebook. Write your answers on the line.

- a. **Twelve** friends go to a Junkanoo parade. Altogether, they pay **\$124.32** for tickets and snacks. They share the cost equally. How much does each person pay?

Answer: \$  each



- b. Mrs. Johnson is selling popcorn at the snack stand. Each bag holds **2.3** ounces of popcorn. In one hour she sells **56** bags of popcorn. How many ounces of popcorn are in 56 bags?

Answer:  ounces of popcorn





## Calculating Sales Tax

A. Shop A has discounted the following items by **30%**.

Item	Old Price	Discount	Sale Price
Shirt	\$29.50		
Dress	\$87.99		

B. Shop A has discounted the following items by **70%**.

Item	Old Price	Discount	Sale Price
Phone	\$1,240.00		
Tablet	\$945.00		

#	E.g.	1	2	3	4	5
Original Price	<b>\$110.00</b>	\$250.00	\$38.00	\$10.00	\$55.00	\$124.00
Sales Tax	<b>5%</b>	7%	6%	5%	9%	4%
Total Cost	<b>\$115.50</b>					