

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

Add and Subtract Whole Numbers:

- | | | | | |
|------------------|------------------|-----------------|--------------------|------------------|
| 1. 4975
+ 935 | 2. 2533
- 334 | 3. 2274
+ 22 | 4. 22564
- 4428 | 5. 3337
+ 227 |
|------------------|------------------|-----------------|--------------------|------------------|

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. 3573
x 32 | 2. 396
x 3 | 3. 3567
x 26 | 4. 7352
x 54 | 5. 3749
x 3 |
|-----------------|---------------|-----------------|-----------------|----------------|

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.



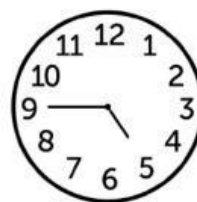
4.



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

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

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

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

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

$\frac{46}{4}$ $\boxed{}$

$\frac{62}{4}$ $\boxed{}$

$\frac{70}{3}$ $\boxed{}$

$\frac{60}{2}$ $\boxed{}$

$\frac{69}{2}$ $\boxed{}$

$\frac{83}{4}$ $\boxed{}$

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.

$+19$ $\boxed{}$

-46 $\boxed{}$

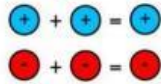
-61 $\boxed{}$

13 $\boxed{}$

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	
-26	
855	
400	
-716	
157	
	greatest

	least
-390	
724	
-762	
-24	
43	
245	
	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) $9 \div 3 + 4 \times 6 =$

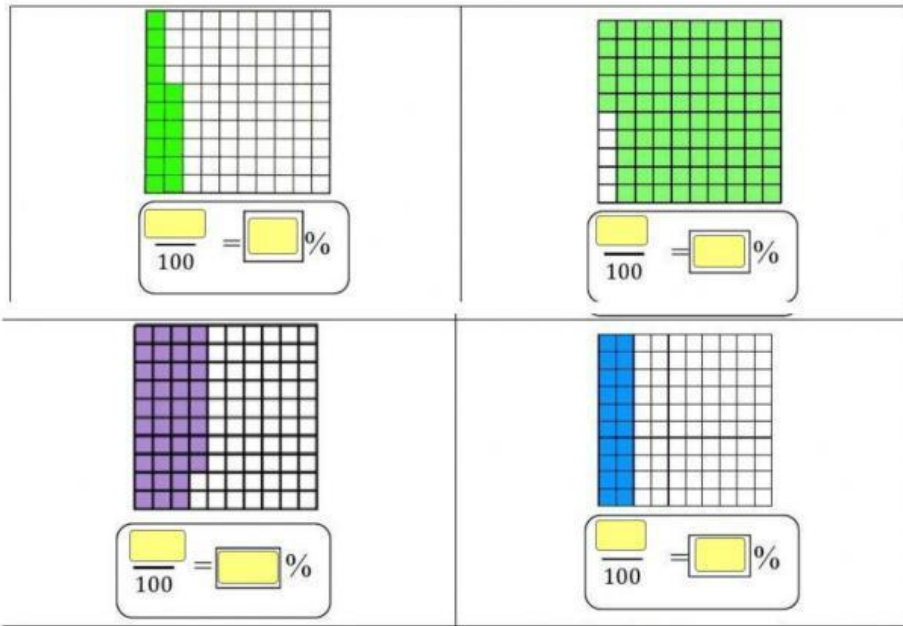
(D) $8 \times 18 \div 4 + 15 =$

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

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

PERCENTS, RATIOS, AND RATES

State the percentage.



Solve the following:

1. Find 15% of \$360.

$$15\% = \underline{\hspace{2cm}}$$

$$\$360 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

2. Find 32% of \$480.

$$32\% = \underline{\hspace{2cm}}$$

$$\$480 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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
Example: 800 words per 4 minutes	Example: $(800 \div 4)$ 200 words per minute
a) 120 flights per 4 hours	flights per hour
b) 147 kilometres in 7 hours	kilometres per hour
c) 60 calls in 12 hours	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 		I don't have enough \$\$ \$6.33 in change \$5.99 in change \$3.67 in change
2 cheeseburgers \$1.59 1 large fry \$1.39 1 large drink \$1.39 		I don't have enough \$\$ \$1.87 in change \$5.96 in change \$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	\$110.00	\$250.00	\$38.00	\$10.00	\$55.00	\$124.00
Sales Tax	5%	7%	6%	5%	9%	4%
Total Cost	\$115.50					