Mt Pisgah 8th Grade Math and Algebra I Summer Enrichment Packet #1

ALEKS® (McGraw Hill logo)

Student Name : _____

Number of Questions: **48**

Instructor Note : **Parents, please print the following. Provide only the questions to your child and RETAIN the answers. Students should NOT initially receive the answers. Calculators should not be used for this assignment**

Question 1 of 48

Multiply.

$$\begin{array}{r} 6\,7 \\ \times\ 3\,6 \\ \hline \end{array}$$

Question 2 of 48

Write the next three multiples of 10.

$$60,\ \square,\ \square,\ \square$$

Question 3 of 48

Write the next three multiples of 4.

$$12,\ \square,\ \square,\ \square$$

Question 4 of 48

Rewrite as a whole number.

$$\frac{11}{11}$$

Question 5 of 48

Evaluate each expression below.

$$7 \div 0 =$$

$$\frac{4}{0} =$$

Question 6 of 48

Divide.

$$2 \overline{)\,5\,8}$$

Question 7 of 48

Divide. Give the quotient and remainder.

$$64 \div 9$$

Quotient:

Remainder:

Question 8 of 48

Divide.

$$91 \div 13$$

Question 9 of 48

Divide.

$$9732 \div 4$$

Question 10 of 48

Divide.

$$228 \div 38$$

Question 11 of 48

Divide.

$$1988 \div 28$$

Question 12 of 48

Use $<$, $>$, or $=$ to compare the numbers.

2 ☐ 51

63 ☐ 94

85 ☐ 642

497 ☐ 411

Question 13 of 48

Order these numbers from least to greatest.

56,621   5,564   188,816   686,441

Question 14 of 48

Round 73 to the nearest ten.

Question 15 of 48

Round 7,282 to the nearest thousand.

Evaluate $30 + 30 \div 5$.

Evaluate the following.

$$6 \div 2 + 3 \times 6 - 4$$

Evaluate the following expression.

$$5 \times \left[3 + (20 + 12) \div 8 \right]$$

Evaluate.

$$9 + 7 \cdot 3^2$$

Evaluate.

$$\frac{(8-2)^2}{4 \cdot 5 - 2}$$

Write all the factors of 33.
Use commas to separate them.

Put a check by all the prime numbers.

☐	4
☐	9
☐	10
☐	15
☐	20
☐	23
☐	None of the above

Question 23 of 48

Write 80 as a product of prime factors.

Question 24 of 48

Find the greatest common factor of 18 and 49.

Question 25 of 48

Find the least common multiple (LCM) of 5 and 15.

Question 26 of 48

Find the least common multiple of 10, 2, and 15.

Use $<$, $>$, or $=$ to compare the following numbers.

$$-1 \,\square\, -5$$
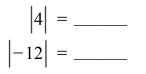$$7 \,\square\, 11$$
$$-4 \,\square\, 0$$

Question 28 of 48

Find each of the numbers below.
Simplify your answers as much as possible.

The opposite of 0:

The opposite of 5:

The opposite of the opposite of 7:

Question 29 of 48

Evaluate the following.

$$\left|4\right| = \underline{\hspace{2cm}}$$
$$\left|-12\right| = \underline{\hspace{2cm}}$$

Question 30 of 48

Add.

$$-1+4 =$$
$$-3+(-5) =$$

Question 31 of 48

Add.

$$-37+(-50) =$$
$$26+(-56) =$$

Question 32 of 48

Subtract.

$$4 - 8 = \boxed{}$$

$$-7 - 5 = \boxed{}$$

Question 33 of 48

Subtract.

$$3 - (-4) = \underline{\hphantom{00000}}$$

$$-4 - (-5) = \underline{\hphantom{00000}}$$

Question 34 of 48

Subtract.

$$-12 - (-9) = \underline{\hphantom{00000}}$$

$$-39 - 31 = \underline{\hphantom{00000}}$$
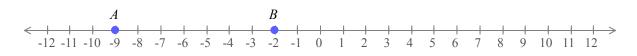
Question 35 of 48

Compute.

$$2 - 5 + 9$$

Question 36 of 48

Evaluate the following.

$$\left| -7 + 9 \right| =$$

$$\left| -7 \right| + 9 =$$

Question 37 of 48

Find the distance between A and B on the number line below.

$$A \qquad B$$

Distance: ____

Question 38 of 48

Evaluate the following.

$$45 \div (-5) = \boxed{}$$

$$-5 \times 9 = \boxed{}$$

Question 39 of 48

Evaluate.

$$-4(-4)(-1)(-2)$$

Question 40 of 48

Evaluate $-9 - 6 \div (-3)$.

Question 41 of 48

Evaluate.

$$-3 \cdot (-2) + \left((-2)^2 - 3\right)^3$$

Question 42 of 48

Find the value of $18 - b$ when $b = 8$.

Question 43 of 48

Find the value of $9 \times p$ when $p = 4$.

Question 44 of 48

Evaluate the expression when $a = 4$ and $b = 5$.

$6a + b$

Question 45 of 48

Solve for y.

$8 = 6 + y$

Question 46 of 48

Solve for x.

$-5 = -8 + x$

Question 47 of 48

Solve for v.

$\dfrac{v}{4} = 52$

Simplify your answer as much as possible.

Question 48 of 48

Solve for y.

$-27 = -9y$

Simplify your answer as much as possible.

Number of Questions: **48**

Question 1 of 48

2412

Question 2 of 48

60 , 70 , 80 , 90

Question 3 of 48

12, 16, 20, 24

Question 4 of 48

1

Question 5 of 48

$7 \div 0$ Undefined

$\dfrac{4}{0}$ Undefined

Question 6 of 48

29

Question 7 of 48

Quotient: 7

Remainder: 1

Question 8 of 48

7

Question 9 of 48

2433

Question 10 of 48

6

Question 11 of 48

71

Question 12 of 48

$2 < 51$

$63 < 94$

$85 < 642$

$497 > 411$

Question 13 of 48

$5,564 < 56,621 < 188,816 < 686,441$

Question 14 of 48

70

Question 15 of 48

7,000

Question 16 of 48

36

Question 17 of 48

17

Question 18 of 48

$5 \times \left[3 + (20 + 12) \div 8 \right] = 35$

Question 19 of 48

72

Question 20 of 48

2

Question 21 of 48

1 , 3 , 11 , 33

Question 22 of 48

☐	4
☐	9
☐	10
☐	15
☐	20
☑	23
☐	None of the above

Question 23 of 48

$80 = 2 \times 2 \times 2 \times 2 \times 5$

Question 24 of 48

1

Question 25 of 48

15

Question 26 of 48

30

Question 27 of 48

$-1 > -5$

$7 < 11$

$-4 < 0$

Question 28 of 48

The opposite of 0: 0

The opposite of 5: -5

The opposite of the opposite of 7: 7

Question 29 of 48

$\left|4\right| = 4$

$\left|-12\right| = 12$

Question 30 of 48

$-1 + 4 = 3$

$-3 + (-5) = -8$

Question 31 of 48

$-37 + (-50) = -87$

$26 + (-56) = -30$

Question 32 of 48

$4 - 8 = -4$

$-7 - 5 = -12$

Question 33 of 48

$3 - (-4) = 7$

$-4 - (-5) = 1$

Question 34 of 48

$-12-(-9)=-3$

$-39-31=-70$

Question 35 of 48

6

Question 36 of 48

(a) $\left|-7+9\right|=2$

(b) $\left|-7\right|+9=16$

Question 37 of 48

Distance: 7

Question 38 of 48

$45 \div (-5)=-9$

$-5 \times 9 = -45$

Question 39 of 48

32

Question 40 of 48

-7

Question 41 of 48

7

Question 42 of 48

10

Question 43 of 48

36

Question 44 of 48

29

Question 45 of 48

$y = 2$

Question 46 of 48

$x = 3$

Question 47 of 48

$v = 208$

Question 48 of 48

$y = 3$