Dear Students and Parents,

Attached you will find the summer work for math class. This work is expected to be completed and turned in on the first full day of school, Wednesday, August 13th.

The purpose of this packet is to help retain important skills from the previous school year and keep their minds sharp throughout the summer months. A little practice over time can make a huge difference when school begins again in August.

Students do not need to complete the entire packet all at once. In fact, I encourage them to spread the work out over the summer. Completing just one assignment each week is a great way to stay fresh without feeling overwhelmed.

Please encourage your child to show all work and try their best on each assignment. The goal is growth, review, and preparation for a successful school year ahead.

If you have any questions at any point during the summer, please feel free to contact me at sdubberley@trinitywildcats.com.

Have a wonderful summer, and I look forward to seeing everyone in August!

Mrs. Dubberley

Name: _____

SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 1

TOPIC:
FRACTIONS OPERATIONS

1. Add or Subtract

Find each sum or difference.

a) $\frac{3}{4} + \frac{2}{3} =$ _____

b) $\frac{5}{6} - \frac{1}{2} =$ _____

c) $\frac{7}{8} + \frac{3}{10} =$ _____

d) $\frac{5}{12} - \frac{1}{18} =$ _____

e) $\frac{4}{5} + \frac{2}{15} - \frac{1}{3} =$ _____

2. Multiply

Find each product. Simplify your answer.

a) $\frac{2}{3} \times \frac{3}{5} =$ _____

b) $\frac{5}{6} \times \frac{9}{10} =$ _____

c) $\frac{4}{7} \times \frac{2}{3} =$ _____

d) $\frac{3}{8} \times \frac{16}{9} =$ _____

e) $2\frac{1}{2} \times \frac{3}{4} =$ _____

3. Divide

Find each quotient. Simplify your answer.

a) $\frac{3}{4} \div \frac{2}{5} =$ _____

b) $\frac{7}{8} \div \frac{1}{2} =$ _____

c) $\frac{5}{6} \div \frac{10}{9} =$ _____

d) $2\frac{1}{3} \div \frac{7}{9} =$ _____

e) $\frac{4}{5} \div 1\frac{1}{4} =$ _____

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SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 2

TOPIC:
DECIMALS OPERATIONS

1. Add or Subtract

Find each sum or difference.

a) 12.45 + 7.38 = _____

b) 56.7 − 18.29 = _____

c) 9.125 + 3.476 = _____

d) 45.2 − 6.879 = _____

e) 27.36 + 14.8 − 6.25 = _____

2. Multiply

Find each product.

a) 3.4 × 6.2 = _____

b) 12.5 × 0.48 = _____

c) 7.6 × 3.85 = _____

d) 0.125 × 72 = _____

e) 4.3 × 0.006 = _____

3. Divide

Find each quotient.

a) 43.2 ÷ 1.8 = _____

b) 72.6 ÷ 0.6 = _____

c) 9.45 ÷ 0.15 = _____

d) 120.75 ÷ 3.5 = _____

e) 6.825 ÷ 0.45 = _____

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SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 3

TOPIC:
RATIOS AND RATES

1. Simplify Ratios

Simplify each ratio to lowest terms.

a) 18 : 24 = _____

b) 45 : 60 = _____

c) 14 : 21 = _____

d) 32 : 48 = _____

e) 27 : 36 = _____

2. Equivalent Ratios

Determine whether the ratios are equivalent. Write Yes or No.

a) 2:3 and 4:6 _____

b) 3:5 and 6:10 _____

c) 2:7 and 4:14 _____

d) 5:8 and 15:24 _____

e) 3:4 and 9:16 _____

3. Unit Rates

Find the unit rate for each situation.

a) $84 for 6 books = $ _____ per book

b) 240 miles in 4 hours = _____ miles per hour

c) 18 apples for $3.60 = $ _____ per apple

d) 15 tickets for $112.50 = $ _____ per ticket

e) 96 ounces of juice for $4.80 = $ _____ per ounce

4. Rate Problems

Solve each problem.

a) A car travels 315 miles in 5 hours. What is the average speed?

_____

b) A recipe calls for 3 cups of flour to make 2 dozen cookies. How many cups of flour are needed for 5 dozen cookies?

_____

_____

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SUMMER MATH PACKET

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WEEK 4

TOPIC:
PERCENTS

1. Convert Percents to Decimals

Write each percent as a decimal.

a) 25% = _____

b) 46.5% = _____

c) 3% = _____

d) 125% = _____

e) 0.75% = _____

2. Convert Decimals to Percents

Write each decimal as a percent.

a) 0.28 = _____

b) 1.75 = _____

c) 0.009 = _____

d) 2.3 = _____

e) 0.567 = _____

Convert Fractions to Decimals

3/4 = _____

2/5 = _____

7/8= _____

1 1/2= _____

4. Percent Word Problems

Solve each problem.

a) A student got 15 of the 20 questions correct on their test. What was their score?

_____

b) It rained 6 days in the month of Febrary. What percent of the days did it rain?

_____

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SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 5

TOPIC:
INTEGERS AND ABSOLUTE VALUE

1. Integer Operations

Find each sum or difference.

a) $8 + (-12) =$ _____

b) $-15 - 9 =$ _____

c) $(-7) + 23 =$ _____

d) $-18 + (-6) =$ _____

e) $45 - (-17) =$ _____

2. Integer Multiplication

Find each product.

a) $(-6) \times 7 =$ _____

b) $(-4) \times (-9) =$ _____

c) $12 \times (-5) =$ _____

d) $(-8) \times (-3) =$ _____

e) $-15 \times 4 =$ _____

3. Absolute Value

Find each absolute value.

a) $|-18| =$ _____

b) $|25| =$ _____

c) $|-7| =$ _____

d) $|0| =$ _____

e) $|-56| =$ _____

4. Absolute Value Equations

Solve each equation.

a) $|x| = 9$
$x =$ _____ or $x =$ _____

b) $|x| = 14$
$x =$ _____ or $x =$ _____

c) $|x| = 0$
$x =$ _____

d) $|x| = 6$
$x =$ _____ or $x =$ _____

e) $|x| = 11$
$x =$ _____ or $x =$ _____

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SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 6

TOPIC:
ALGEBRAIC EXPRESSIONS AND EQUATIONS

1. Evaluate Expressions

Evaluate each expression when $x = 4$.

a) $3x + 5 =$ _____

b) $2x - 7 =$ _____

c) $5x + 2x - 3 =$ _____

d) $4(x - 3) =$ _____

e) $x^2 + 2x =$ _____

2. Simplify Expressions

Simplify each expression.

a) $2x + 3 + x - 5 =$ _____

b) $4y - 7 + 2y + 3 =$ _____

c) $3a + 2b - a + b =$ _____

d) $5(x + 2) =$ _____

e) $2(3y - 4) + y =$ _____

3. Solve One-Step Equations

Solve each equation.

a) $x + 9 = 21$
$x =$ _____

b) $x - 7 = 13$
$x =$ _____

c) $6x = 42$
$x =$ _____

d) $\frac{x}{5} = 8$
$x =$ _____

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SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 7

TOPIC:
ORDER OF OPERATIONS

1. Evaluate Expressions

Evaluate each expression using the order of operations.

a) $5 + 3 \times 2 =$ _____

b) $18 - 4 \times 3 =$ _____

c) $2^2 + 3 \times 4 =$ _____

d) $(12 - 6) \div 3 + 5 =$ _____

e) $7 + 2 \times (8 - 3) =$ _____

2. Evaluate Expressions

Evaluate each expression using the order of operations.

a) $6 \times 2 + 4^2 =$ _____

b) $(15 - 5) \div 2 + 7 =$ _____

c) $3 \times (4 + 6) - 8 =$ _____

d) $100 - 5^2 + 3 \times 2 =$ _____

e) $(18 \div 3) + 2 \times 5 =$ _____

3. Word Problems

Solve each problem.

a) A movie ticket costs $7. There is a service fee of $1.50 per ticket. If you buy 4 tickets, what is the total cost?

_____

b) A store has a 20% off sale. An item originally costs $45. How much will you pay after the discount?

_____

4. Multi-Step Expressions

Evaluate each expression using the order of operations.

a) $2 + 3 \times 4 - 6 \div 2 =$ _____

b) $(9 - 3)^2 + 2 \times 5 =$ _____

c) $12 \div (2 + 4) + 3 \times 7 =$ _____

d) $5 \times [3 + (8 - 2) \div 3] =$ _____

e) $10 - \{2 \times [3 + (4 - 1)]\} =$ _____

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SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 8

TOPIC:
GEOMETRY (AREA, PERIMETER, VOLUME)

1. Perimeter

Find the perimeter of each figure.

a) 8 cm, 5 cm

P = _____

b) 12 ft

P = _____

c) 7 m, 3 m

P = _____

2. Area

Find the area of each figure.

a) 9 cm, 4 cm

A = _____

b) 10 ft

A = _____

c) 6 m, 8 m

A = _____

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SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 9

TOPIC:
COORDINATE PLANE AND GRAPHING

1. Plot the Points

Plot and label each point on the coordinate plane.

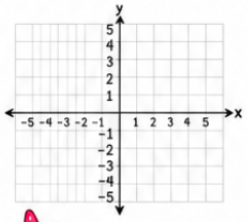
a) A (2, 3)

b) B (−1, 4)

c) C (3, −2)

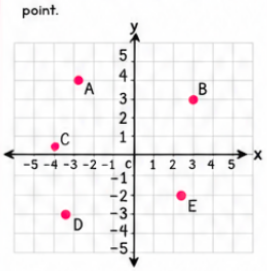
d) D (−4, −1)

e) E (0, −3)



2. Find the Coordinates

Write the coordinates of each point.



a) A = (_____, _____)

b) B = (_____, _____)

c) C = (_____, _____)

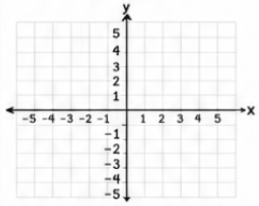
d) D = (_____, _____)

e) E = (_____, _____)

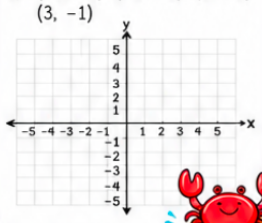
3. Graph from Ordered Pairs

Graph and connect the points in order.

a) (−4, 1), (−2, 4), (0, 1), (2, −2), (4, 1)



b) (−3, −1), (−1, −3), (1, −3), (3, −1)



4. Quadrants

In which quadrant (I, II, III, or IV) or on which axis does each point lie?

a) (3, 5) _____

b) (−2, 1) _____

c) (−4, −3) _____

d) (5, −2) _____

e) (0, 4) _____

f) (−3, 0) _____

g) (0, −5) _____

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SUMMER MATH PACKET

For Students Entering 7th Grade

WEEK 10

TOPIC:
STATISTICS (MEAN, MEDIAN, MODE, RANGE)

1. Find the Mean

Find the mean (average) of each data set.

a) 4, 7, 9, 10, 6 _____

b) 12, 15, 18, 10, 20 _____

c) 3, 3, 3, 3, 3 _____

d) 8, 6, 7, 9, 10, 12 _____

e) 2, 4, 6, 8, 10, 12 _____

2. Find the Median

Find the median of each data set.

a) 5, 1, 7, 3, 9 _____

b) 14, 22, 17, 19, 21 _____

c) 8, 8, 8, 8, 8 _____

d) 2, 4, 6, 8, 10, 12, 14 _____

e) 11, 15, 13, 9, 7, 5, 3 _____

3. Find the Mode

Find the mode of each data set. (If there is no mode, write "none".)

a) 3, 5, 3, 7, 3, 9 _____

b) 2, 4, 6, 8, 10 _____

c) 1, 2, 2, 3, 3, 3, 4 _____

d) 9, 9, 8, 8, 7, 7 _____

e) 5, 5, 5, 5, 5 _____

4. Find the Range

Find the range of each data set.
Range = highest value − lowest value

a) 2, 5, 8, 1, 6 _____

b) 15, 10, 20, 5, 25 _____

c) 7, 7, 7, 7, 7 _____

d) 3, 6, 9, 12, 15, 18 _____

e) 30, 22, 17, 14, 10, 5 _____

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