



TRUE NORTH
CLASSICAL ACADEMY

**Incoming Sixth
Summer Learning**



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Timeless Principles: Remarkable Achievement

June 6, 2024

Summer Learning Plan

Dear Parents:

It is difficult to believe that summer is here! While we believe that the summer months should be an opportunity for leisure and quality time spent with family, we also believe that a healthy engagement of the mind is necessary to keep the learning of the past year fresh and to help create a bridge for the new learning to come. With that said, we have asked teachers for help in creating the following summer learning plan. The reading plan will include reading one novel and to answer comprehension questions; the math plan will include a math packet and other activities based on your grade level. **Please note that completion of summer work is mandatory. However, also, please note that the summer work is a minimum to be attained; it does not prohibit you from having your child read more books and complete more math.**

Incoming Sixth-Grade

Reading

Tales of the Greek Heros by Roger Lancelyn Green

Assignment: Answer the attached comprehension questions.

Math

Math Packet Attached

All the above-mentioned books can be purchased on **Amazon** at a very reasonable price. The hope is that your child will enjoy the required book and read much more as well (if possible).

Research has shown that regression of learning during the summer months can, sometimes, account for one-third of learning gains achieved during the school year. Have your child read aloud to you, ask questions as they read, and read to them to model good fluency. Your child should be prepared to discuss the book upon return to school.

Upon returning to school, the summer book will be discussed and the assignment must be turned in. Students will **receive a grade** for the completion of the summer reading and math assignment.

Let me know if you have any questions. Enjoy your summer!!

Warm regards,

True North Administration

Directions: Directions: On a separate sheet of lined paper, neatly answer the questions below in complete sentences. You will be graded on neatness and quality of the answers.

1. Who was famous for his feats of strength?
2. Who had 200 heads and was as tall as the clouds?
3. Who could turn men into stone?
4. Who was the goddess of love and beauty?
5. Who was the god of the sun?
6. Who was Persephone?
7. Who were the Cyclopes?
8. Who were the Nymphs?
9. Who had an upper body of a human and the lower body of a horse?

Choose any four of the Greek Heroes and summarize the following for each:

- a. What is the god/goddess known for?
 - b. Describe an important event that took place.
 - c. What was the climax of their adventure?
10. What does it mean to be mortal? List three characters who were mortal.
 11. What does it mean to be immortal? List three characters who were immortal.
 12. What is Mount Olympus?
 13. Why do you think the Greek myths and legends were first told? Explain.

1. Consider the number 12.406

- (a) What is the value of the digit in the tenths place? _____ [1]
- (b) What digit is in the hundredths place? _____ [1]
- (c) What is difference between this number and 12.4? _____ [1]
- (d) Fill in the blanks with a whole number or a fraction. [1]

$$12.406 = 1 \times \underline{\quad} + 2 \times \underline{\quad} + 4 \times \underline{\quad} + 6 \times \underline{\quad}$$

2. Write $>$, $<$, or $=$ in each \bigcirc

- (a) $0.205 \bigcirc \frac{25}{1000}$ (b) $4.10 \bigcirc 4.1$ [2]
- (c) $3.1 - 0.46 \bigcirc 2 + 0.06$ (d) $0.89 \times 7 \bigcirc 7$ [2]
- (e) $17.4 \div 5 \bigcirc \frac{3}{10}$ (f) $3 - 0.12 \bigcirc 2\frac{8}{9}$ [2]

3. Multiply or divide. Use mental calculation.

- (a) $0.4 \times 100 = \underline{\quad}$ (b) $0.008 \times 1,000 = \underline{\quad}$ [2]
- (c) $56.8 \div 100 = \underline{\quad}$ (d) $0.007 \div 0.01 = \underline{\quad}$ [2]
- (e) $400 \times 0.8 = \underline{\quad}$ (f) $120 \div 0.02 = \underline{\quad}$ [2]

4. Find the equivalent measures.

(a) $0.04 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$ (b) $6.25 \text{ lb} = \underline{\hspace{1cm}} \text{ lb } \underline{\hspace{1cm}} \text{ oz}$ [2]

(c) $35 \text{ ml} = \underline{\hspace{2cm}} \text{ liters}$ (d) $0.75 \text{ ft} = \underline{\hspace{2cm}} \text{ in.}$ [2]

5. Multiply or divide. Give an estimate first.

(a) 17.02×43 (b) 8.1×2.19 [4]

Estimate:

Estimate:

Answer:

Answer:

(c) $11.25 \div 18$ (d) $89.96 \div 0.04$ [4]

Estimate:

Estimate:

Answer:

Answer:

6. Find the following correct to 2 decimal places

(a) $49.95 \div 0.07$

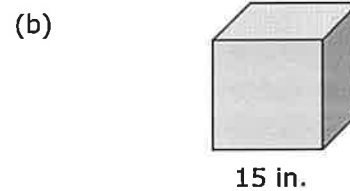
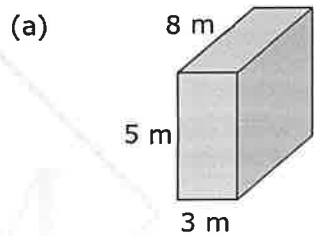
(b) $89.5 \div 31$

[4]

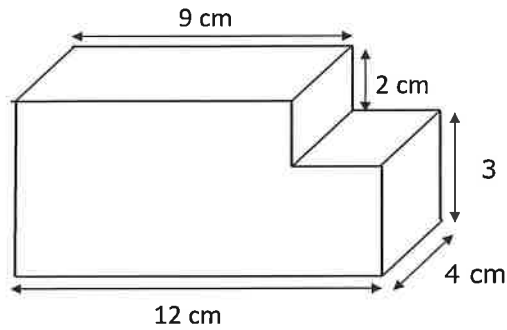
7. The total cost of 4 lb of fish and 3 lb of meat is \$42.40. If 1 lb of fish costs \$3.25 more than 1 lb of meat, what is the cost of 1 lb of meat? [3]

8. The length of one side of a cube is 1 yd. What is its volume in cubic feet? [2]

9. Find the volume the rectangular prism and cube. [2]

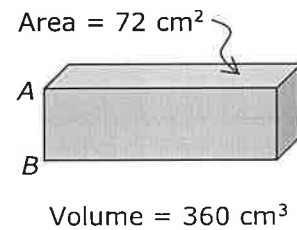


10. The following figure is made from centimeter cubes. Find the volume. [3]

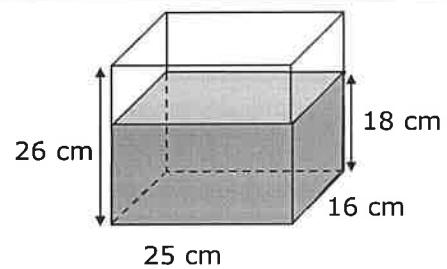


11. The area of one side of a rectangular prism is 72 cm^2 , and its volume is 360 cm^3 . What is the length of the unknown edge?

$AB =$



12. A rectangular tank measuring 25 cm by 16 cm by 26 cm is to be filled with water to a depth of 18 cm. How much more water is needed to fill the tank? Give your answer in liters. (1 liter = 1000 cm^3)



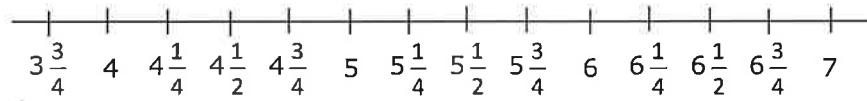
<p>13. How many 4-cm cubes can fit into a rectangular box 1 m long, 0.4 m wide, and 0.6 m high? [3]</p>
<p>14. A rectangular container 8 cm long and 9 cm wide was filled with water to a depth of 6 cm. When 12 marbles of equal size were added to the container, the depth of the water became 7.5 cm. Find the volume of one marble. [3]</p>
<p>15. Find the average of 21.4, 18.2, and 65.7. [2]</p>
<p>16. Fill in the blank: The average of 42, 36, _____, and 25 is 30. [2]</p>
<p>17. The average weight of 3 packages is 2 kg 750 g. The average weight of 2 of them is 3 kg 200 g. Find the weight of the third package. Give your answer in kg and g. [2]</p>

18. Valerie recorded the weights of some mature dogs of a certain small breed that were brought to the veterinarian clinic to the nearest quarter of a pound.

Weight in pounds

5	$5\frac{3}{4}$	$3\frac{3}{4}$	$5\frac{1}{2}$	5
6	$6\frac{1}{4}$	$4\frac{1}{2}$	$5\frac{3}{4}$	$5\frac{1}{2}$
$5\frac{1}{4}$	$6\frac{1}{2}$	6	$4\frac{3}{4}$	$5\frac{1}{2}$

- (a) Create a line plot from the data. [2]

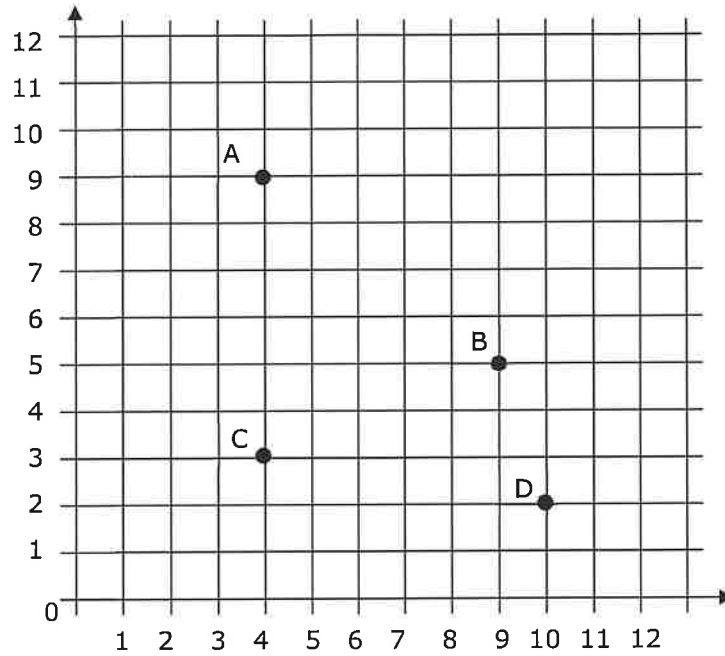


- (b) What is the difference between the heaviest and lightest weight recorded? [1]

- (c) What fraction of the dogs weigh the most common weight recorded? [1]

- (d) What is the average of the data? [2]

19.



(a) Write the ordered pair for each of the points. [2]

A: _____ B: _____

C: _____ D: _____

(b) Draw a point at (6, 10). [1]

(c) Which coordinates, the first or the second, of the ordered pairs do you subtract to find the distance between A and C? [1]

20. A rectangle has coordinates (4, 3), (4, 10), (10, 10), and (10, 3) on a grid with 1 centimeter squares. What is area of the rectangle? [2]

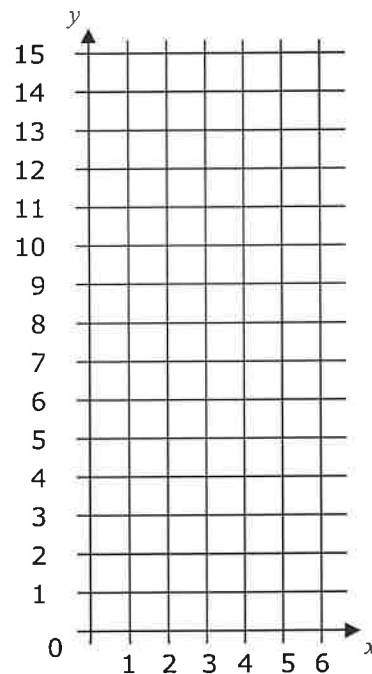
21. (a) In Sequence A, each number is obtained by adding 2 to the previous number. Complete the table. [1]

Term (x)	1	2	3	4	5
Number (y)	2	4			
(x, y)	(1, 2)	(2, 4)			

- (a) In Sequence B, each number is obtained by adding 3 to the previous number. Complete the table. [1]

Term (x)	1	2	3	4	5
Number (y)	3	6			
(x, y)	(1, 3)	(2, 6)			

- (b) Plot both sets of ordered pairs on the graph at the right and connect the points in each set. Describe what happens to the distance between the two lines as x increases. [3]

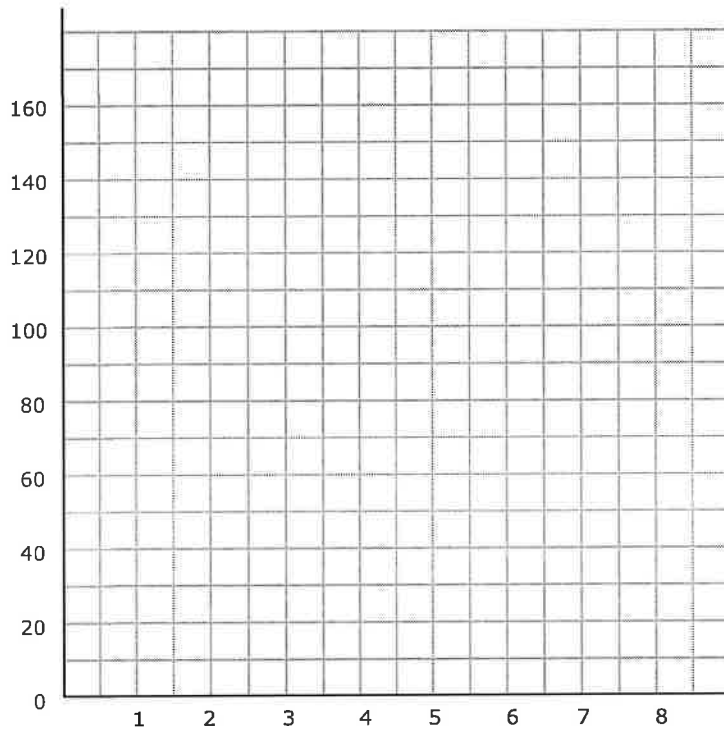


22. Water is flowing from a tap in to a tank. Every minute 25 gallons of water is added to the tank.

(a) Complete this table for the amount of water in the tank. [2]

Time (min)	1	2	3	4	5	6
Amount (gal)	25					

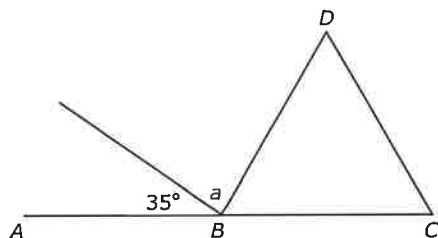
(b) Plot these points in a line graph. [2]



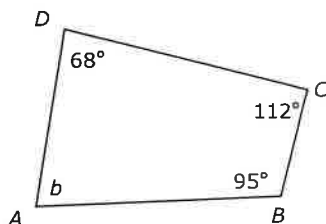
(c) Use the graph to estimate to the nearest tenth of a minute how long it takes until there is 120 gallons in the tank _____ [1]

23. The following figures are not drawn to scale. Find the unknown marked angle in each.

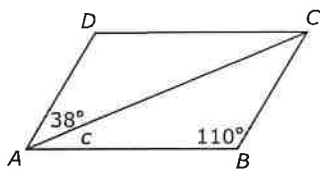
(a) ABC is a straight line. BCD is an equilateral triangle. [2]



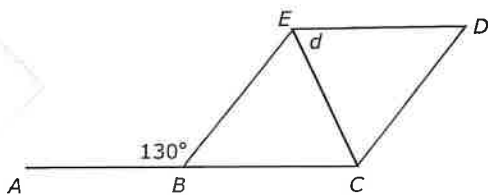
(b) ABCD is a quadrilateral. [2]



(c) ABCD is a parallelogram. [2]



(d) ABC is a straight line. BCDE is a rhombus. [2]



<p>24. Express each as a percentage.</p> <p>(a) 0.47 [1]</p> <p>(b) $\frac{6}{15}$ [1]</p> <p>(c) 215 out of 500 [1]</p>
<p>25. Express as a decimal and as a fraction in its simplest form. [2]</p> <p>85% Decimal: _____ Fraction: _____</p>
<p>26. John had \$75. He spent \$15 on a book. What percentage of his money does he have left? [3]</p>
<p>27. The normal price of a camera was \$76. At a sale it was sold at a discount of 15%. What was the selling price of the camera? [3]</p>