Summer Math Packet for students placed in Pre-Algebra

Dear Students and Parents,

Attached is a Math packet of worksheets for your child to complete over the summer vacation. These cumulative review worksheets are designed to reinforce skills your child has learned during the past school year. This additional practice will help your child master and retain these skills over the summer, so as to be well prepared to handle the Math curriculum in the next grade.

Please encourage your child to work on this Math packet each week. If he/she completes ten problems at a time, it will not be an overwhelming task. We would suggest that a short period of time be set aside on a regular basis (daily/weekly) throughout the summer to complete several problems. Waiting until the last week of summer vacation will defeat the purpose of regular Math practice and increase the chance of careless mistakes from rushing through the problems. We would also recommend that your child save this year's Math notebook and workbook to use as a reference over the summer. He/she may also consult the textbook's website for tutorials and learning support at www.classzone.com.

The student should use a pencil and show the calculations on <u>separate</u> pieces of loose-leaf paper. This work should be numbered and organized <u>neatly</u> on the page, and then stapled to the completed packet. Computation should <u>not</u> be squeezed into the small spaces on the Math packet.

The Math packet (with attached loose-leaf paper) will be collected and checked <u>during the first week of back-to-school in August</u>. A grade will be assigned based on your child's completed assignment, actual calculations and effort.

Thank you in advance for your cooperation in this matter. Do your best! Enjoy your summer!

Sincerely,

Middle school math teachers Grades 6-8



Name

Cumulative Test

For use after Chapters 1-13

For Students Placed in Pre-Algebra

5. Mean =

Median =

Mode =

7. _____

11. _____

12. _ C =

13. d =

10. ____

Answers

Evaluate the expression for the given value of the variable.

1.
$$12 - x + 7$$
, when $x = 5$

2.
$$2a - 8$$
, when $a = 19$

Copy and complete the statement using <, >, or =.

4.
$$8.1 \times 10^5$$
 ? 7.05×10^6

Find the mean, median, and mode(s) of the data.

5. Children of the following ages are in an after school activity: 12, 10, 13, 9, 14, 11, 9, 12, 9

Tell whether the fractions are equivalent.

6.
$$\frac{3}{11}$$
, $\frac{7}{22}$

7.
$$\frac{2}{7}, \frac{8}{28}$$

Find the difference.

8.
$$7\frac{3}{4} - 4\frac{1}{3}$$

Evaluate the expression when a = -5, b = 7, c = -2, and d = 3.2.

9.
$$a^2 - b + (4.7 - d) - c$$

Simplify the expression.

10.
$$-3 - 4b + b - 8$$

11.
$$21t - 9 - 12t + 14$$

Solve the equation.

12.
$$15 + c = -3$$

170

13.
$$6d = 54$$

Write the verbal sentence as an equation. Let \boldsymbol{x} represent the number.

- 7 less than a number is 15.
- 15. 3 times the sum of a number and 2 is 12.



Name

Cumulative Test

For use after Chapters 1-13

Find the sum, difference, product, or quotient.

$$3.24 + 5.48$$

17.
$$2.4 \times 0.125$$

18.
$$21.73 - 14.87$$

19.
$$15.3 \div 0.09$$

Find the sum, difference, product, or quotient.

$$\frac{30}{16} + \frac{3}{4}$$

21.
$$7\frac{2}{5} - 4\frac{7}{10}$$

22.
$$2\frac{1}{3} \cdot 3\frac{3}{4}$$

23.
$$\frac{7}{12} \div \frac{14}{15}$$

Find the sum or difference.

25. 6 c 4 fl oz
$$-3$$
 c 5 fl oz

Copy and complete the statement using <, >, or =.

Copy and complete the statement.

a8.
$$8 \text{ pt} = \frac{?}{2} c$$

29.
$$23 \text{ qt} = \underline{?} \text{ gal } \underline{?} \text{ qt}$$

Solve the equation.

30.
$$4 + t^2 = 68$$

Answers



Name _

_ Date _

Cumulative Test

For use after Chapters 1-13

Write the decimal as a fraction and as a percent.

31. 0.44

Write the percent as a decimal

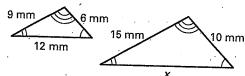
- 33. What number is 45% of 520?
- 34. 75 is what percent of 30?

Solve the proportion.

35.
$$\frac{x}{15} = \frac{3}{7.5}$$

36.
$$\frac{12}{16} = \frac{y}{12}$$

37. Find the unknown length given that the triangles are similar.



The shadow cast by a house is 55 feet long. At the same time, a flagpole that is 15 feet tall casts a 25 foot long shadow. How tall is the house?

Order the integers from least to greatest.

Find the sum, difference, product, or quotient.

40.
$$-11 + (-17)$$

41.
$$21 - 32$$

43.
$$-54 \div (-6)$$

Answers

Cumulative Test

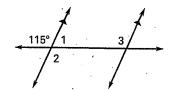
For use after Chapters 1-13

use the diagram to find the unknown angle measures.

44. $m \angle 1$

45. m∠2

46. *m*∠3



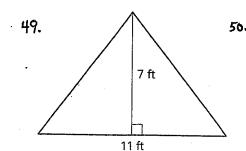
For the given angle measure, find the measure of a supplementary angle and the measure of a complementary angle, if possible.

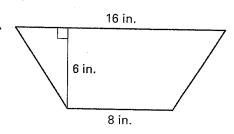
47. 18°

48. Find the sum of the angle measures in a hexagon.

Find the cum of the small manner to 1

Find the area of the figure.





Find the circumference and area of the circle. Use 3.14 for π .

51. 11 in.

44.

(3)

47.

48

49. A =

50. A =

51. <u>C</u> = <u>A</u> =

Post-Course Test

Classify the solid. Be as specific as possible.

52.

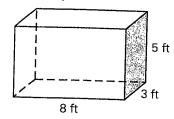


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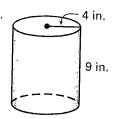


Find the surface area of the solid. Use 3.14 for π .

54,

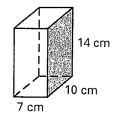


55.

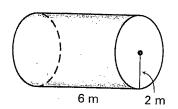


Find the volume of the solid. Use 3.14 for π .

56.



57.



Answers

52.	
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