

Student Name: _____ Date Completed: _____



MJBHA SUMMER MATH PACKET
INCOMING GRADE 8

Dear Students,

Enclosed you will find math problems that will help you succeed in 8th grade.

This packet is due in math class on the second day of school,

Wednesday, August 29.

You will be **quizzed** on its contents during the first week of school.

Please do all work on a separate piece of paper and number problems clearly. Please do not use a calculator and show all work.

Good luck!

Sincerely,

The Math Department

Tell whether the two fractions form a proportion.

1. $\frac{3}{4}, \frac{16}{20}$

2. $\frac{5}{7}, \frac{30}{42}$

3. $\frac{4}{18}, \frac{6}{27}$

4. Use the ratio table to find the unit rate in dollars per ounce.

Amount (ounces)	12	16	20	24
Cost (dollars)	0.96	1.28	1.6	1.92

Order the numbers from least to greatest.

5. $|-5|, 6, -6, -|4|, -2$

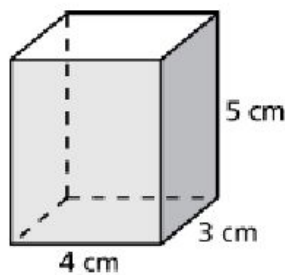
6. $\frac{15}{2}, -8.5, -\frac{42}{5}, 10.2$

Solve the inequality.

7. $4x < 24$

8. $x + 8 \geq 12$

9. What is the volume of the prism?



10. A map has a scale of 1 in. : 10 mi. On the map, the distance between two cities is 5 inches. What is the actual distance between the cities?

Simplify the expression.

11. $-4 + 11$

12. $-6 - 9$

13. $-7(-8)$

14. $60 \div (-4)$

15. $|-34|$

16. $| -(-41) |$

17. $17(-14)$

18. $12 - (-19)$

19. $\frac{4}{15} + \frac{5}{9}$

20. $\frac{7}{8} \div \frac{3}{4}$

21. $\frac{13}{18} \cdot \frac{9}{25}$

22. $-\frac{7}{12} - \frac{1}{8}$

23. $(0.6)^2$

24. $8.37(-5.3)$

25. $0.95 - 3.49$

26. The length and the width of a rectangle are both doubled. What is the ratio of the area of the larger rectangle to the area of the smaller rectangle?

Solve the equation.

27. $7 + x = -2$

28. $8 - x = 13$

29. $x - 11 = -5$

30. $3x - 2 = -5$

31. $8x + 5 = 21$

32. $9 - 2x = 23$

33. Use the properties of equality to show that the equation $6x + 3 = 27$ is equivalent to the equation $2x = 8$.

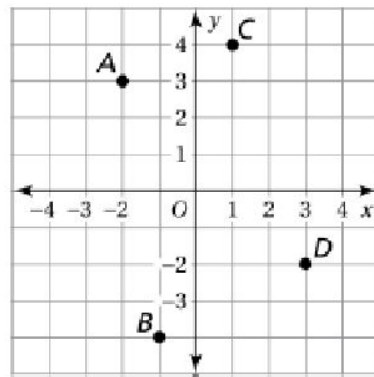
Find the coordinates of the point.

34. A

35. B

36. C

37. D



Complete the statement using $<$, $>$, or $=$.

38. 1 in. $\underline{\hspace{1cm}}$ 2.54 cm

39. 40 in. $\underline{\hspace{1cm}}$ 1 m

40. 7 L $\underline{\hspace{1cm}}$ 2 gal

Write the fraction as a decimal.

41. $\frac{3}{4}$

42. $\frac{5}{16}$

43. $\frac{21}{4}$