

Math 7 Mastery Test #2 Review

1. Graph the integer -9 and its opposite on a number line.

2. Use a number line to find the absolute value.

$$|2|$$

3. The table shows the change in four companies' stock prices at the end of a day's trading. Which company's stock lost the most?

| Company | Change in Price |
|----------------|------------------------|
| King | -4 |
| Farley | 4 |
| Allendale | 8 |
| Tellers | -1 |

4. Find the sum $39 + (-33)$.

5. Evaluate $a + b$ for $a = 40$ and $b = 17$.

6. The income from the Spanish Club's bake sale was \$265. Expenses for the sale totaled \$40. Use integer addition to find the total profit or loss from the bake sale.

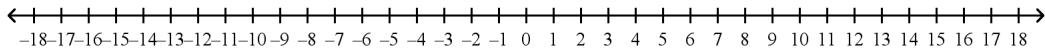
7. Find the difference $-13 - (-40)$.

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8. Evaluate $p - q$ for $p = 16$ and $q = -24$.

9. Use a number line to find the product $2(-4)$.



10. Find the product $8 \cdot (-6)$.

11. Find the quotient $8 \div (-2)$.

12. Solve the equation $w - 15 = -10$. Check your answer.

13. Solve the equation $\frac{c}{2} = -6$. Check your answer.

14. Write the fraction $\frac{42}{50}$ as a decimal. If necessary, round your answer to the nearest hundredth.

15. Write the decimal 0.46 as a fraction in simplest form.

16. Compare the fractions $\frac{6}{10}$? $\frac{-2}{6}$. Write $<$ or $>$.

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17. Compare the decimals 0.55 ? 0.86. Write < or >.

18. Herlinda earns money by caring for turtles while people are on vacation. Herlinda earns \$30 per week per pet. The table shows the number of turtles cared for per week during July. Simplify the expression $(8 + 4 \times 3) \times 30$ to find out how much Herlinda earned for the month of July.

| Week | Pets |
|-------------|-------------|
| Week 1 | 8 |
| Week 2 | 4 |
| Week 3 | 4 |
| Week 4 | 4 |

19. Use the Distributive Property to find $7(99)$.

20. Evaluate $x - 4$ for $x = 40$.

21. Evaluate $3x + 5$ for $x = 3$.

22. Evaluate $\frac{3}{n} + 3m$ for $n = 3$ and $m = 7$.

23. Simplify $30 - 16 \div 2$.

24. Tell which property is represented. $266 \times 1 = 266$.

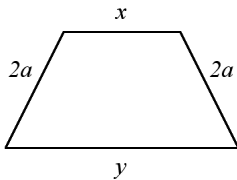
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25. Tell which property is represented. $9 \times (5 \times 2) = (9 \times 5) \times 2$.

26. Simplify $12 + 3(18 - 4^2) + 9$.

27. Write an expression for the perimeter of the trapezoid. Then, simplify the expression.



28. Identify like terms in the list: $5.6q$; $6a^3$; $4q$; $3t$; z^3 ; a ; $3a^3$; $\frac{4}{11}r$; $\frac{q}{2}$; $7r$.

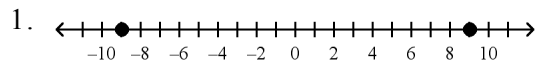
29. It takes 60 days to create a custom motorcycle. Write an algebraic expression to describe the number of days it takes to create n custom motorcycles. How many days will it take to create 10 custom motorcycles?

30. A fence has a total of 500 planks. Olivia paints p planks each day. Write an algebraic expression for how many days it will take Olivia to finish painting the fence.

31. Write the phrase as an algebraic expression.
5 times the sum of a number and 21

Math 7 Mastery Test #2 Review Answer Section

SHORT ANSWER



2. 2
3. King
4. 6
5. 57
6. profit of \$225
7. 27
8. 40
9. -8
10. -48
11. -4
12. $w = 5$
13. $c = -12$
14. 0.84
15. $\frac{23}{50}$
16. $>$
17. $<$
18. \$600
19. 693
20. 36
21. 14
22. 22
23. 22
24. Identity Property
25. Associative Property
26. 27
27. $2a + x + 2a + y$; $4a + x + y$
28. $5.6q$, $\frac{q}{2}$, and $4q$; $6a^3$ and $3a^3$; $\frac{4}{11}r$ and $7r$
29. $60n$; 600 days
30. $\frac{500}{p}$
31. $5(z + 21)$