

Math 7 Mastery Test #3 Review

1. A submarine started at the surface of the water and was moving down at -17 kilometers per minute toward the ocean floor. The submarine traveled at this rate for 42 minutes before coming to rest on the ocean floor. What is the depth of the ocean floor?
2. Add. Estimate to check whether the answer is reasonable.
 $32.7 + 39.3$
3. Subtract. Estimate to check whether the answer is reasonable.
 $92.4 - 49.91$
4. Two pounds of corned beef cost \$13.33, and a package of cabbage cost \$3.91. What is the total cost of the corned beef and the cabbage?
5. Multiply.
 $-3 \cdot (-0.72)$
6. Divide.
 $4.1882 \div 41.882$
7. Solve $c + 9.398 = 7.6$.

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8. Solve $\frac{t}{19.7} = 4.2$.

9. Kristi had \$4.00 when she went to the store. When she got back, she had \$3.09. How much did she spend?

10. Subtract. Express your answer in simplest form.

$$\frac{5}{6} - \frac{4}{6}$$

11. Subtract. Express your answer in simplest form.

$$\frac{4}{6} - \frac{2}{9}$$

12. Multiply. Express your answer in simplest form.

$$3 \cdot \frac{3}{4}$$

13. Multiply. Express your answer in simplest form.

$$2\frac{1}{8} \cdot \frac{1}{4}$$

14. Divide. Express your answer in simplest form.

$$\frac{9}{10} \div 3$$

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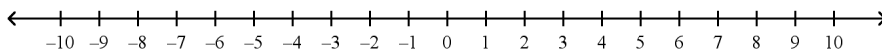
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15. Solve $t + \frac{1}{7} = \frac{1}{2}$. Express your answer in simplest form.

16. Solve $-\frac{2}{7}z = \frac{4}{9}$. Express your answer in simplest form.

17. Suppose an ant can carry $29\frac{2}{5}$ times its own weight. If the ant weighs $3\frac{3}{4}$ mg, how much can it carry?

18. Graph the integer -8 and its opposite on a number line.



19. Find the absolute value.
 $|5|$

20. The income from the Spanish Club's bake sale was \$500. Expenses for the sale totaled \$20. Use integer addition to find the total profit or loss from the bake sale.

21. Find the difference $-47 - (-3)$.

22. Find the quotient $-84 \div (-2)$.

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23. Solve the equation $v + (-12) = -18$. Check your answer.

24. Solve the equation $\frac{f}{11} = -19$. Check your answer.

25. Write the fraction $\frac{29}{50}$ as a decimal. If necessary, round your answer to the nearest hundredth.

26. Write the decimal 0.81 as a fraction in simplest form.

27. Evaluate $x - 4$ for $x = 27$.

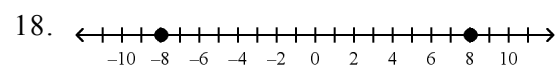
28. Evaluate $10n + 7$ for $n = 3$.

29. A fence has a total of 675 planks. Violeta paints m planks each day. Write an algebraic expression for how many days it will take Violeta to finish painting the fence.

Math 7 Mastery Test #3 Review Answer Section

SHORT ANSWER

1. -714 kilometers
2. 72
3. 42.49
4. \$17.24
5. 2.16
6. 0.1
7. $c = -1.798$
8. $t = 82.74$
9. \$0.91
10. $\frac{1}{6}$
11. $\frac{4}{9}$
12. $\frac{9}{4}$
13. $\frac{17}{32}$
14. $\frac{3}{10}$
15. $t = \frac{5}{14}$
16. $z = -\frac{14}{9}$
17. $110\frac{1}{4}$ mg



19. 5
20. profit of \$480
21. -44
22. 42
23. $v = -6$
24. $f = -209$
25. 0.58
26. $\frac{81}{100}$
27. 23
28. 37
29. $\frac{675}{m}$