

PROMOTION TEST

If you can do the exercises on this page and on page 527, you are ready to be promoted.

Find the answers:

- | | |
|---|---|
| 1. $2\frac{7}{8} + 6\frac{1}{2} - 1\frac{3}{4} - 2\frac{3}{8} + 4\frac{1}{4}$ | 3. $10\frac{2}{3} \times 12\frac{1}{4}$ |
| 2. $4.75 - 1.625 + 2.875 - 3.25$ | 4. $180 \div .024$ |

Find the results correct to the nearest cent:

- | | | |
|------------------------------|---------------------------|------------------------------|
| 5. 3.2% of \$500 | 100% of \$35 | 412% of \$840 |
| 6. $4\frac{1}{2}$ % of \$375 | $12\frac{1}{2}$ % of \$60 | $\frac{1}{4}$ of 1% of \$135 |

Find what per cent the first number is of the second. If necessary, find results correct to the nearest tenth of 1%:

7. 11, 18 45, 30 281, 325 161, ~~450~~
8. If \$450 increases to \$540, find the per cent of increase.

Solve for x and check the work:

- | | |
|------------------------------|-----------------------------------|
| 9. $2x - 17 = 15$ | 11. $\frac{x}{4} = \frac{18}{12}$ |
| 10. $\frac{1}{5}x + 14 = 19$ | 12. $x : 20 = 4 : 5$ |

Find, to the nearest tenth, the square root of:

13. 47 85 113 240 375 573

Find these areas:

14. Triangle: base, 15 ft.; height, 7 ft.
15. Trapezoid: bases, 9 ft., 5 ft.; height, 4 ft.
16. Circle: radius, 10 ft. Let $\pi = 3\frac{1}{7}$.

Find these volumes. Let $\pi = 3\frac{1}{7}$:

17. Cylinder: diameter of base, 8 in.; height, 12 in.
18. Pyramid: area of base, 25 sq. ft.; height, 9 ft.
19. Sphere: radius, 4 ft.

PROMOTION TEST

1. If you buy a 4% \$1000 bond at 75, what is the rate of income you get on your investment?
2. For 15 yr. Mr. Wells insured his house annually for \$15,000 at 34¢ per \$100. If a 5-year policy costs only 4 times as much as a 1-year policy, how much would Mr. Wells have saved in 15 yr. by buying 5-year policies?
3. Helen was asked how much money she had. She replied, "If you will give me \$2, I will then have 3 times as much as I have now." How much has she now?
4. Mr. Ladd can buy a radio set for \$69.50 cash or on the installment plan by paying \$10 down and \$7.50 a month for 9 mo. How much more does Mr. Ladd pay if he buys the radio set on the installment plan than if he pays cash?
5. On Apr. 15 Mr. Walton borrows \$400 for 66 da. at 6% from the Town Bank. Write the note he gives the bank. Find the proceeds of the note. On what day does he pay the note?
6. Mr. Wells of Cleveland sends a check for \$149.33 to Mr. Hill of Omaha. Mr. Wells writes the check on the Grant Bank of Cleveland. Mr. Hill deposits the check in the Colonial Bank of Omaha, which sends the check to the Federal Reserve Bank of Cleveland. Diagram the travels of the check.
7. If a photograph $4\frac{1}{4}$ in. long and $2\frac{1}{2}$ in. wide is enlarged so that it is 5 in. wide, how long is it?
8. Mr. Ford buys a life-insurance policy for \$8000. Find his yearly premium at the rate of \$30.94 per \$1000.
9. At the rate of \$4.85 per \$100, find the tax on a house and lot assessed at \$12,500.
10. A retail merchant bought goods listed at \$1500. He received discounts of 15% and 10% on the bill, and an extra discount of 2% if he paid within 10 da. after receiving the bill. If he paid the bill promptly, how much did he have to pay?