

HIGHLIGHTED REVIEW PRACTICE 12

Factorization

Find the prime factorization of each number.

1. 30	2. 64	3. 450
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4. What number has the prime factorization $2 \times 5 \times 5 \times 7$?
5. Circle the prime numbers. 10 5 39 21 53
6. Circle the composite numbers. 26 18 41 13 27
7. List all the factors of 52.

Choose the best answer.

8. Which of these is a composite number?
A. 1 B. 2 C. 3 D. 4

KNOWLEDGE CHALLENGE 12

Show your work on a separate sheet of paper and write your answers on this page.

Write an inequality, equality, or expression to show each of the following relationships.

1. 12 plus a number n is less than 30.

2. 4 times 6 is equal to 3 times a number, n .

3. Norberto has ten dollars and he wants to buy some ballpoint pens, which cost \$2.35; some notebooks, which cost \$4.40; and a fancy eraser, which costs \$1.45. He wants to make sure he has enough money to pay for all of them, so he rounds the cost of each item to the nearest dollar and adds them up: $\$2 + \$4 + \$1 = \7 . He concludes that his ten dollars would be sufficient to buy all the items. Is he correct and, if so, why? If the estimate that Norberto makes turns out to be \$8 instead of \$7, should he be concerned?

4. If there are 12 inches in 1 foot, how many inches are in $2\frac{1}{2}$ feet?

5. If there are 3 feet in 1 yard, how many yards are there in 7 feet?

KNOWLEDGE CHALLENGE 12 (continued)

6. If there are 32 ounces in 1 quart, how many ounces are in 6.7 quarts?

7. Solve $3x + 2 = 14$ for x .

8. Evaluate $6 \times N - 3$ for $N = 4$.

9. List all the factors of 36.

10. Find the prime factorization of 39.
