

SKILL

Skills Readiness**49****Percent Problems**

Multiplying by percents:

Step 1: Change the percent to a decimal by dropping the % symbol and moving the decimal point two places to the left.

Step 2: Multiply using rules for decimal multiplication.

Translating a percent problem into an equation:

Rewrite the percent as a decimal and then use the translations at the right to rewrite the problem as an equation.

Example: What is 30% of 90?

$$\begin{array}{ccccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ n & = & 0.30 & \times & 90 & & \end{array}$$

$$n = 27$$

Word	Mathematical Translation
what	an unknown quantity, such as n or x
is	equals or =
of	multiplication or \cdot or \times or $()$

Practice on Your Own
Multiply.

1. 0.25×72

2. 0.15×60

3. 0.20×1400

4. 0.06×500

Answer each question.

5. What is 12% of 50? _____

6. What is 70% of 30? _____

7. What is 22% of 150? _____

8. What is 10% of 450? _____

9. What is 50% of 168? _____

10. What is 65% of 4000? _____

Check
Multiply.

11. 0.08×250

12. 0.35×60

13. 0.40×600

14. 0.75×480

Answer each question.

15. What is 3% of 200? _____

16. What is 20% of 115? _____

17. What is 45% of 180? _____

18. What is 95% of 300? _____