



SKILL 23: Dividing Multiples of Ten

You can use basic facts and division patterns to help you divide.

Example 1

Study the division sentences. What pattern do you see?

$$45 \div 9 = 5$$

$$450 \div 9 = 50$$

$$4,500 \div 9 = 500$$

$$45,000 \div 9 = 5,000$$

If the divisor remains the same and the dividend is multiplied by 10, the quotient is multiplied by 10.

Example 2

Study the division sentences. What pattern do you see?

$$18,000 \div 9 = 2,000$$

$$18,000 \div 90 = 200$$

$$18,000 \div 900 = 20$$

$$18,000 \div 9,000 = 2$$

If the dividend stays the same and the divisor is multiplied by 10, the quotient is divided by 10.

Guided Practice

Find each quotient. Use basic facts and patterns to help.

1. a. $25 \div 5 =$ _____

b. $250 \div 5 =$ _____

c. $2,500 \div 5 =$ _____

d. $25,000 \div 5 =$ _____

2. a. $36 \div 6 =$ _____

b. $360 \div 6 =$ _____

c. $3,600 \div 6 =$ _____

d. $36,000 \div 6 =$ _____

3. a. $8,100 \div 9 =$ _____

b. $8,100 \div 90 =$ _____

c. $8,100 \div 900 =$ _____

4. a. $42,000 \div 6 =$ _____

b. $42,000 \div 60 =$ _____

c. $42,000 \div 600 =$ _____

d. $42,000 \div 6,000 =$ _____

SKILL 23: Practice

Find each quotient. Use mental math and the patterns.

1. a. $56 \div 7 =$ _____
b. $560 \div 7 =$ _____
c. $5,600 \div 7 =$ _____
d. $56,000 \div 7 =$ _____
2. a. $36,000 \div 4 =$ _____
b. $36,000 \div 40 =$ _____
c. $36,000 \div 400 =$ _____
d. $36,000 \div 4,000 =$ _____
3. $2,400 \div 6 =$ _____
4. $27,000 \div 90 =$ _____
5. $350 \div 7 =$ _____
6. $1,800 \div 30 =$ _____
7. $32,000 \div 8 =$ _____
8. $6,000 \div 200 =$ _____
9. $4,000 \div 500 =$ _____
10. $6,300 \div 70 =$ _____
11. $1,600 \div 400 =$ _____
12. $720 \div 90 =$ _____
13. $1,200 \div 3 =$ _____
14. $49,000 \div 700 =$ _____
15. $48,000 \div 8 =$ _____
16. $8,100 \div 900 =$ _____
17. $24,000 \div 8,000 =$ _____
18. $2,800 \div 400 =$ _____
19. $320 \div 80 =$ _____
20. $30,000 \div 6 =$ _____

Solve.

21. Delia earns \$120 after working for 10 hours. What is her hourly rate of pay? _____
22. Each New Town bus holds 40 passengers. How many buses are needed to transport 2,000 people? _____



23. Four students shared a \$2,800 prize equally. How much money did each receive?
Skill 23
A \$60 C \$600
B \$70 D \$700

24. Eugene saved \$256. He spent \$192 on some new speakers. Which is the best estimate of how much he has left after his purchase?
Skill 6
F \$40 H \$400
G \$60 J \$460