Practice   Video   Tools   Games

Another Look!

A school spends $12,000 on 20 new computers.
Each computer costs the same amount.
How much does each computer cost?

Find a basic fact, and then use patterns.

A basic fact that can be used for 12,000 ÷ 20 is
12 ÷ 2 = 6.

$$120 \div 20 = 6$$
$$1{,}200 \div 20 = 60$$
$$12{,}000 \div 20 = 600$$

Multiply to check: 600 × 20 = 12,000

Each computer costs $600.

Use place-value patterns to help find the quotient.

Leveled Practice In **1–16**, use mental math to help solve.

1. 720 ÷ 90 = 72 tens ÷ 9 tens = __8__

2. 4,800 ÷ 60 = 480 tens ÷ 6 tens = __80__

3. 1,200 ÷ 30 = __120__ tens ÷ __3__ tens = __40__

4. 25,000 ÷ 50 = __2,500__ tens ÷ __5__ tens = __500__

5. 320 ÷ 40
8

6. 9,000 ÷ 30
300

7. 1,800 ÷ 90
20

8. 2,000 ÷ 40
50

9. 24,000 ÷ 80
300

10. 32,000 ÷ 40
800

11. 3,600 ÷ 90
40

12. 40,000 ÷ 50
800

13. 42,000 ÷ 60
700

14. 5,400 ÷ 60
90

15. 49,000 ÷ 70
700

16. 56,000 ÷ 80
700

17. A carton of staples has 50 packages. The carton contains 25,000 staples in all. Each package has an equal number of staples. How many staples are in each package? Explain how to use a basic fact to find the answer.

500 staples; 25 ÷ 5 = 5. Then use a pattern. 2,500 ÷ 5 = 500, so 25,000 ÷ 50 = 500.

18. A club collected $3,472 to buy computers. If each computer costs $680, estimate the number of computers that the club can buy. Explain.

About 5 computers; round each number to the nearest hundred. 3,472 rounds to 3,500. 680 rounds to 700. Divide: 3,500 ÷ 700 = 5

19. Higher Order Thinking A railroad car container can hold 42,000 pounds. Mr. Evans wants to ship 90 ovens and some freezers in the same container. If each freezer weighs 600 pounds, how many freezers could be shipped in the container? Explain.
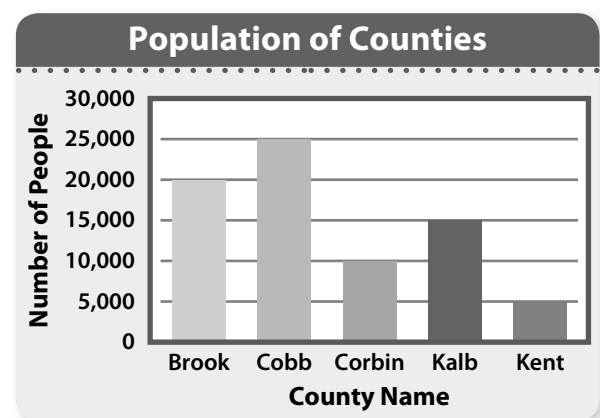
40 freezers; 90 × 200 lb = 18,000 lb; 42,000 lb − 18,000 lb = 24,000 lb; 24,000 lb ÷ 600 lb = 40

Each oven weighs 200 pounds.

20. Critique Reasoning There are 50 communities in Kalb County. Each community has about the same number of people. Marty estimates there are about 300 people living in each community. Is his estimate reasonable? Justify your answer.

Yes; Sample answer: The graph shows that Kalb County has 15,000 people. 15,000 ÷ 50 = 300

Population of Counties

County Name	Number of People
Brook	20,000
Cobb	25,000
Corbin	10,000
Kalb	15,000
Kent	5,000

☑ **Assessment Practice**

21. Which is 2,000 divided by 50?

Ⓐ 4
Ⓑ 40
Ⓒ 400
Ⓓ 4,000

22. Which expression has a quotient of 400?

Ⓐ 800 ÷ 2
Ⓑ 8,000 ÷ 2
Ⓒ 8,000 ÷ 20
Ⓓ 80,000 ÷ 20