

MY Homework

Lesson 2

Estimate Quotients

Homework Helper



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Estimate $122 \div 3$.

Find compatible numbers, or numbers that are easy to divide mentally.

122 is close to 120. 120 and 3 are compatible numbers because they are easy to divide mentally.

Divide using the compatible numbers. $120 \div 3 = 40$

Check

Use multiplication. $3 \times 40 = 120$

So, a good estimate for $122 \div 3$ is 40.

Helpful Hint

$$12 \div 3 = 4, \text{ so}$$

$$120 \div 3 = 40$$

Practice

Estimate. Check your estimates using multiplication.

1. $184 \div 9$

2. $\$149 \div 5$

3. $241 \div 8$

4. $\$422 \div 6$

5. $637 \div 8$

6. $\$3,611 \div 6$

7. $1,175 \div 4$

8. $5,421 \div 9$

9. $\$2,782 \div 7$

Algebra Use mental math to find an estimate of the unknown number.

10. $8,122 \div 9 = d$

d is about _____

11. $3,030 \div m = 600$

m is about _____


12. $4,883 \div 7 = h$

h is about _____



Problem Solving

Estimate. Check your estimates using multiplication.

13. **Mathematical PRACTICE**  **Model Math** In August, 2,760 people attended concerts at Cooper Arena. About the same number of people went to see each of the 5 concerts. About how many people attended each concert?

14. A mosaic at the art museum is divided into 6 sections that each contain about the same number of tiles. There are 2,889 tiles total in the mosaic. About how many tiles are in each section?

15. Mr. Morgan owns an ice-cream shop. His shop made \$1,380 last weekend. Mr. Morgan charges \$2 for each scoop of ice cream. About how many scoops of ice cream were sold last weekend?

Vocabulary Check



16. Circle the compatible numbers you could use to estimate $3,616 \div 9$.

$3,700 \div 9$

$3,600 \div 9$

$3,620 \div 9$

Test Practice

17. Mrs. Scholl graded 632 tests during the school year. She had 3 helpers. About how many tests did each helper grade?

(A) 315 tests

(C) 210 tests

(B) 310 tests

(D) 200 tests