

MY Homework

Lesson 5

Divide Greater Numbers

Homework Helper



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At a recent rock concert, \$28,440 was made from front-row ticket sales. If the cost of a single ticket was \$72, how many people purchased front-row tickets?

Find $28,440 \div 72$.

Estimate $28,000 \div 70 = 400$

1 Place the first digit.

$$284 \div 72 \approx 3$$

Write 3 in the quotient over the hundreds place.

2 Multiply. $72 \times 3 = 216$

$$\text{Subtract. } 284 - 216 = 68$$

$$\text{Compare. } 68 < 72$$

$$\begin{array}{r} 395 \\ 72 \overline{)28,440} \\ \underline{-216} \\ 684 \\ \underline{-648} \\ 360 \\ \underline{-360} \\ 0 \end{array}$$

3 Divide the tens.

$$684 \div 72 \approx 9$$

$$72 \times 9 = 648$$

$$684 - 648 = 38$$

$$38 < 72$$

4 Divide the ones.

$$360 \div 72 = 5$$

$$72 \times 5 = 360$$

$$360 - 360 = 0$$

$$0 < 75$$

So, 395 people purchased front-row tickets.

Check Since the estimate is 400, the answer of 395 is reasonable.

Practice

Estimate. Then divide. Check for reasonableness.


1. $21,312 \div 36 = \underline{\hspace{2cm}}$ 2. $76,912 \div 92 = \underline{\hspace{2cm}}$ 3. $29,978 \div 89 = \underline{\hspace{2cm}}$



Problem Solving

4. Given the area of a rectangle is 14,628 square millimeters, and the width is 12 millimeters, find the length.

5. Turtles and tortoises have long life spans. A tortoise can live for 54,750 days. How many years can a tortoise live? (*hint*: 365 days = 1 year)

6. **Mathematical PRACTICE**  **Use Algebra** The new baseball stadium holds 64,506 people. There are 26 gates where people enter the ballpark. The same number of people entered each gate. How many people entered the first gate? Find the unknown number in the equation $64,506 \div 26 = p$.

Test Practice

7. Joshua works for a computer company at an annual salary of \$38,480. He receives 26 equal pay checks during the year. How much does he receive in each pay check?

- (A) \$1,370 (C) \$1,525
(B) \$1,480 (D) \$1,560

My Work!

