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4.NBT.B.6 Estimate Quotients (Word Problems)

4.NBT.B.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors

1. Write a number sentence that represents the best estimate. Estimate the quotient.
   a. $162 \div 8 =$
   b. $241 \div 6 =$
   c. $598 \div 3 =$
   d. $\$395 \div 8 =$
   e. $183 \div 9 =$
   f. $704 \div 7 =$
   g. $\$629 \div 9 =$
   h. $141 \div 2 =$
   i. $322 \div 8 =$
   j. $\$281 \div 7 =$
   k. $6{,}411 \div 8 =$

   Solution:
   a.
   b.
   c.
   d.
   e.
   f.
   g.
   h.
   i.
   j.
   k.

2. Fourth grade students at an elementary school collected 272 box tops on Monday and another 220 box tops on Tuesday. If there are 70 fourth grade students at the school, about how many box tops did each student collect?

   Solution:

3. John ate about 7,650 calories worth of food in a week. About how many calories worth of food does he eat every day?

   Solution:

4. A search engine estimates that there were 124,000 searches performed about practice test between 5 PM to 9 PM across USA. About how many searches were performed each hour?

   Solution:

5. A professional basketball team scored 424 points in 7 games. If the team played with 10 players, about how many points were scored by a single player in each game?

   Solution:

6. Sam used 359 tokens to play the video games at the arcade. Angel used about 484 tokens to play the games. If both of them used about 6 tokens in each game, about how many more games did Angel play than Sam?

   Solution:

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   i. $322 \div 8 =$
   j. $\$281 \div 7 =$
   k. $6,411 \div 8 =$

   Solution:
   a. 20 (nearest 10)
   b. 40 (nearest 10)
   c. 200 (nearest 100)
   d. $50 (nearest 100)
   e. 20 (nearest 10)
   f. 100 (nearest 10)
   g. $70 (nearest 10)
   h. 70 (nearest 10)
   i. 40 (nearest 10)
   j. $40 (nearest 10)
   k. 800 (nearest 100)

2. Fourth grade students at an elementary school collected 272 box tops on Monday and another 220 box tops on Tuesday. If there are 70 fourth grade students at the school, about how many box tops did each student collect?

   Solution: 7

3. John ate about 7,650 calories worth of food in a week. About how many calories worth of food does he eat every day?

   Solution: 1,100

4. A search engine estimates that there were 124,000 searches performed about practice test between 5 PM to 9 PM across USA. About how many searches were performed each hour?

   Solution: 31,000

5. A professional basketball team scored 424 points in 7 games. If the team played with 10 players, about how many points were scored by a single player in each game?

   Solution: 6

6. Sam used 359 tokens to play the video games at the arcade. Angel used about 484 tokens to play the games. If both of them used about 6 tokens in each game, about how many more games did Angel play than Sam?

   Solution: 20