

Name _____

Estimate Quotients Using Multiples

COMMON CORE STANDARD CC.4.NBT.6

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Find two numbers the quotient is between. Then estimate the quotient.

1. $175 \div 6$

between 20 and 30

about 30

Think: $6 \times 20 = 120$ and $6 \times 30 = 180$.

So, $175 \div 6$ is between 20 and 30. Since 175 is closer to 180 than to 120, the quotient is about 30.

2. $53 \div 3$

3. $75 \div 4$

4. $215 \div 9$

5. $284 \div 5$

6. $191 \div 3$

7. $100 \div 7$

8. $438 \div 7$

9. $103 \div 8$

10. $255 \div 9$

Problem Solving



11. Joy collected 287 aluminum cans in 6 hours. About how many cans did she collect per hour?

12. Paul sold 162 cups of lemonade in 5 hours. About how many cups of lemonade did he sell each hour?

Lesson Check (CC.4.NBT.6)

1. Abby did 121 sit-ups in 8 minutes. Which is the best estimate of the number of sit-ups she did in 1 minute?
 (A) about 12
 (B) about 15
 (C) about 16
 (D) about 20
2. The Garibaldi family drove 400 miles in 7 hours. Which is the best estimate of the number of miles they drove in 1 hour?
 (A) about 40 miles
 (B) about 50 miles
 (C) about 60 miles
 (D) about 70 miles

Spiral Review (CC.4.OA.2, CC.4.OA.3, CC.4.NBT.4, CC.4.NBT.5)

3. Twelve boys collected 16 aluminum cans each. Fifteen girls collected 14 aluminum cans each. How many more cans did the girls collect than the boys? (Lesson 3.7)
 (A) 8
 (B) 12
 (C) 14
 (D) 18
4. George bought 30 packs of football cards. There were 14 cards in each pack. How many cards did George buy? (Lesson 3.1)
 (A) 170
 (B) 320
 (C) 420
 (D) 520
5. Sarah made a necklace using 5 times as many blue beads as white beads. She used a total of 30 beads. How many blue beads did Sarah use? (Lesson 2.2)
 (A) 5
 (B) 6
 (C) 24
 (D) 25
6. This year, Ms. Webster flew 145,000 miles on business. Last year, she flew 83,125 miles on business. How many more miles did Ms. Webster fly on business this year? (Lesson 1.7)
 (A) 61,125 miles
 (B) 61,875 miles
 (C) 61,985 miles
 (D) 62,125 miles