

Lesson 5-7 Goldman Absent

Thursday, December 9, 2021 7:13 AM

Name _____

Lesson 5-7

Divide by 2-Digit Divisors

Solve & Share
A bakery needs to make a batch of 198 bagels. Each baking sheet holds the same number of bagels. How many baking sheets are needed? Solve this problem any way you choose.

Estimate, Divide, & Check

$200 \div 20 = 10$
 $198 \div 18 = 11$
 $180 \div 20 = 9$

$$\begin{array}{r} 11 \\ 18 \overline{) 198} \\ \underline{-18} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

$$\begin{array}{r} 11 \\ \times 18 \\ \hline 88 \\ +110 \\ \hline 198 \end{array}$$

You can make sense and persevere by using rounding or compatible numbers. Show your work!

The baker needs 11 baking sheets.

18 bagels per sheet

Look Back! **MP.2 Reasoning** How did your estimate help you find the quotient?

Estimates showed that the quotient was a 2-digit answer. The best was a quotient of 10.

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11/20/19
MB 27278

Guided Practice

Do You Understand?

- Can the remainder be greater than the divisor? Why or why not?
No. If the remainder is greater than divisor the quotient is too small!
- How can you use estimation to check if a quotient is reasonable? The estimate should be close to the quotient. Should be equal place values.

Do You Know How?

- Estimate $452 \div 21$.
- Complete.

$$\begin{array}{r} 21 \overline{) 452} \\ \underline{-42} \\ 32 \\ \underline{-21} \\ 11 \end{array}$$

Remember to check that your answer is reasonable.

$$\begin{array}{r} 21 \\ \times 21 \\ \hline 21 \\ +420 \\ \hline 441 \\ +11 \\ \hline 452 \end{array}$$

Independent Practice

Leveled Practice For 5-7, fill in the boxes.

5. 18468 6. 94658 7. 419227

Complete 12, 17, 21

In 8-15, estimate and then find the quotient. Use your estimate to check for reasonableness.

8. 54378 9. 83984 10. $761 \div 5$ 11. $510 \div 30$
 12. $7,704 \div 24$ 13. $7,830 \div 35$ 14. $3,136 \div 64$ 15. $6,252 \div 71$

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$$\begin{aligned} 8,000 \div 20 &= 400 \\ 7,704 \div 24 &= d \\ 6,000 \div 20 &= 300 \end{aligned}$$

$$\begin{array}{r} 24 \\ \times 3 \\ \hline 72 \end{array}$$

$$\begin{array}{r} \times 321 \\ 24 \overline{) 7,704} \\ \underline{-72} \\ 50 \\ \underline{-48} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

$$\begin{array}{r} 321 \\ \times 24 \\ \hline 1284 \\ +6420 \\ \hline 7,704 \end{array}$$

Math Practices and Problem Solving

For 16-18, use the table at right.

16. **MP1: Make Sense and Persevere**

Bob's Citrus and Nursery sells citrus gift cartons. They have 5,643 oranges to pack into gift cartons. How many cartons can they fill?

Bob's Citrus Gift Cartons	
Citrus Fruit	Number per Carton
Grapefruits	18
Oranges	24
Tangerines	12

17. Of the 4,325 grapefruits harvested so far, Bob's has sold 1,250 of them at a farmer's market. How many gift cartons can Bob's fill with the remaining grapefruits? How many grapefruits will be left?
18. Bob's sells tangerine gift cartons each December. Last year, they shipped a total of 3,300 tangerines. If each carton sells for \$25, how much money did Bob's earn from the tangerine gift cartons sold?

19. **Higher Order Thinking** A period of 20 years is called a score. The Statue of Liberty was dedicated in 1886. About how many scores ago was that?

20. **MP4: Model with Math** At an automobile plant, each car is inspected by 34 different workers before it is shipped to a dealer. One day, workers performed 9,690 inspections. How many cars were shipped? Explain.



Common Core Assessment

21. For which division problems is 46 the quotient? Write those division problems in the box.

Quotient	Divisor	Dividend
46	21	966
46	18	828
46	15	690

$$46 \times 10 = 460$$

$$\begin{array}{r} 46 \\ \times 21 \\ \hline 46 \\ +920 \\ \hline 966 \end{array}$$

$$\begin{array}{r} 53 \\ \times 46 \\ \hline 318 \\ +2120 \\ \hline 2,438 \end{array}$$

$$\begin{array}{r} 43 \\ \times 46 \\ \hline 258 \\ +1720 \\ \hline 1,978 \end{array}$$

$$\begin{array}{r} 2 \\ \times 46 \\ \hline 276 \\ +1840 \\ \hline 2,116 \end{array}$$

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$$\begin{array}{r} 4,325 \\ -1,250 \\ \hline 3,075 \end{array}$$

$$\begin{aligned} 4,000 \div 20 &= 200 \\ 3,075 \div 18 &= c \\ 2,000 \div 20 &= 100 \end{aligned}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \\ +108 \\ \hline 240 \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \\ +126 \\ \hline 161 \end{array}$$

$$\begin{array}{r} \times 170 \\ 18 \overline{) 3,075} \\ \underline{-18} \\ 127 \\ \underline{-126} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

$$\begin{array}{r} 170 \\ \times 18 \\ \hline 1360 \\ +1700 \\ \hline 3060 \\ +15 \\ \hline 3075 \end{array}$$

Bob can fill 170 boxes with 15 grapefruits left over.