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3

Practice

..... Dividing Three Digits by One Digit

A teacher has 480 stickers. She divides her class into 6 groups. She wants to give each group an equal number of stickers. What is the maximum number of stickers that each group can receive?

$$\begin{array}{r}
 \overline{) 480} \\
 \underline{- 48} \\

 \end{array}$$

80

$6 \times 8 = 48$ so $6 \times 80 = 480$

Directions: Use the sample above as a guide to how to solve these problems below.

1. $6 \overline{) 360}$

2. $5 \overline{) 250}$

3. $7 \overline{) 210}$

4. $9 \overline{) 360}$

5. $7 \overline{) 280}$

6. $8 \overline{) 240}$

7. $3 \overline{) 240}$

8. $9 \overline{) 270}$

9. $6 \overline{) 540}$

10. $8 \overline{) 320}$

11. $9 \overline{) 180}$

12. $6 \overline{) 240}$

13. $7 \overline{) 490}$

14. $5 \overline{) 350}$

15. $7 \overline{) 280}$

16. $4 \overline{) 160}$

17. $4 \overline{) 280}$

18. $8 \overline{) 560}$

19. $5 \overline{) 300}$

20. $6 \overline{) 300}$

21. $8 \overline{) 400}$

22. $5 \overline{) 400}$

23. $5 \overline{) 200}$

24. $4 \overline{) 200}$

Facts to Know

- Estimating the quotient can provide an approximate answer to long division problems.
- Use what you know about multiplication with multiples of 10 to help you with the estimation of quotients.

Solve: $10 \overline{)560}$

1. Estimate what multiple of 10 can be used as the divisor for 560. ($10 \times 50 = 500$ is a close estimate to 560.) Write (10×50) next to the estimated product.

$$\begin{array}{r} 10 \overline{)560} \\ - 500 \\ \hline \end{array}$$

Estimate

$$10 \times 50$$

2. Subtract 500 from 560 and the answer is 60.

$$\begin{array}{r} 10 \overline{)560} \\ - 500 \\ \hline 60 \end{array}$$

Estimate

$$10 \times 50$$

3. Estimate what multiple of 10 can be used as the divisor for 60. ($10 \times 6 = 60$) Write 10×6 next to the estimated product. Subtract 60 from 60 and the answer is 0. Add the circled numbers written on the side to get your quotient. ($50 + 6 = 56$)

$$\begin{array}{r} 10 \overline{)560} \\ - 500 \\ \hline 60 \\ - 60 \\ \hline 0 \end{array}$$

Estimate

$$10 \times 50$$

$$10 \times 6$$

4. Check your answer by using the Division Code. For the sample problem, the quotient estimate and the actual answer using the Division Code are the same. In some problems the estimated answer may be slightly less than the actual answer. The actual answer is 56.

$$\begin{array}{r} \times 56 \\ 10 \overline{)560} \\ - 50 \\ \hline 60 \\ - 60 \\ \hline 0 \end{array}$$