

Dividing by 2-Digit Divisors

RETEACHING

Topic 5 Reteaching

Set A, pages 122–123

Find $32,000 \div 80$ using mental math.
Use basic facts and patterns to help.

$$32 \div 8 = 4$$

$$320 \div 80 = 4$$

$$3,200 \div 80 = 40$$

$$32,000 \div 80 = 400$$

Think $32,000 \div 80$
is the same as
 $3,200 \text{ tens} \div 8 \text{ tens}$.

Remember that if the basic fact has a zero in the dividend, it should NOT be used to find the number in the quotient.

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|----------------------------|----------------------------|
| 1. $360 \div 40 = 9$ | 2. $270 \div 90 = 3$ |
| 3. $180 \div 20 = 9$ | 4. $750 \div 50 = 15$ |
| 5. $2,100 \div 30 = 70$ | 6. $4,800 \div 80 = 60$ |
| 7. $5,400 \div 60 = 90$ | 8. $6,300 \div 90 = 70$ |
| 9. $30,000 \div 50 = 600$ | 10. $21,000 \div 30 = 700$ |
| 11. $72,000 \div 80 = 900$ | 12. $81,000 \div 90 = 900$ |

Set B, pages 124–125

Estimate $364 \div 57$.

Use compatible numbers and patterns to divide.

$$364 \div 57$$

$$360 \div 60 = 6$$

So, $364 \div 57$ is about 6.

Remember that compatible numbers are numbers that are easy to compute in your head.

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|-----------------------|----------------------|
| 1. $168 \div 45$ | 2. $525 \div 96$ |
| 3. $379 \div 63$ | 4. $234 \div 72$ |
| 5. $360 \div 60 = 6$ | 6. $210 \div 70 = 3$ |
| 7. $600 \div 100 = 6$ | 8. $720 \div 90 = 8$ |

Set C, pages 126–127

The football coach spent a total of \$890.40 including \$50.40 tax for 35 shirts for the team. The price of each shirt was the same. How much did one shirt cost before tax was added?

Identify the hidden question or questions.

How much did all the shirts cost without tax?

$$\$890.40 - \$50.40 = \$840.00$$

Solve the problem.

$$\$840 \div 35 = \$24 \quad \text{Each shirt cost \$24.00.}$$

Remember that you need to identify the hidden question or questions and answer them before solving the problem.

Write and answer the hidden question or questions. Then solve.

- At the city triathlon, athletes bike 110 miles, run a 23.5-mile marathon, and swim. If the total distance of this triathlon is 135.7 miles, how far do the athletes swim? **See margin.**
- A gymnast practices 6 days per week. If the same gymnast practices a total of 120 hours in a 4-week period, how many hours per day does the gymnast practice? **See margin.**

Topic 5 Reteaching

Set D, pages 128–129

Find $461 \div 30$.

Estimate to decide where to put the first digit in the quotient.

Use compatible numbers. $450 \div 50 = 9$

Start dividing the ones. Multiply and subtract. Compare the remainder to the divisor.

$$\begin{array}{r} 9 \text{ R}11 \\ 30 \overline{)461} \\ \underline{-450} \\ 11 \end{array}$$

To check, compare the quotient to your estimate.

Remember that if the product of your first quotient and the divisor is larger than the dividend, your estimate is too high. Try dividing again with the next lower number.

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|-------------------------|-------------------------|
| 1. $20 \overline{)428}$ | 2. $30 \overline{)547}$ |
| 3. $40 \overline{)387}$ | 4. $50 \overline{)653}$ |
| 5. $60 \overline{)589}$ | 6. $70 \overline{)912}$ |
| 7. $80 \overline{)698}$ | 8. $90 \overline{)849}$ |

Set E, pages 130–132, 134–137

Find $789 \div 19$.

Estimate first.

$$800 \div 20 = 40.$$

Divide the tens. Multiply, subtract, and compare.

$$\begin{array}{r} 41 \text{ R}10 \\ 19 \overline{)789} \\ \underline{-76} \\ 29 \\ \underline{-19} \\ 10 \end{array}$$

Remember that you can check your answer by multiplying the quotient by the divisor, and then adding the remainder to that product. The sum should be your dividend.

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|--------------------------|--------------------------|
| 1. $74 \overline{)389}$ | 2. $28 \overline{)119}$ |
| 3. $36 \overline{)234}$ | 4. $38 \overline{)792}$ |
| 5. $42 \overline{)523}$ | 6. $47 \overline{)5190}$ |
| 7. $58 \overline{)7211}$ | 8. $123 \overline{)549}$ |

Set F, pages 138–139

Decide if the problem has missing or extra information. Solve if possible.

Kay has 3 folders. Each folder has 6 pockets for subjects. How many sheets of paper are in each folder?

What you know: 3 folders, 6 pockets per folder.

What you want to find: How many sheets of paper in each folder.

Can you solve? No, it does not mention paper being in folders or pockets.

Remember that some problems have too much information, but can be solved.

- Mario has \$40.20. He went to the store and bought apples, cereal, and bread. How much change did he get back?
Missing information.
- Alanna bought 6 books. Each book costs \$13 and each bookmark cost \$2. How much did she spend on books?
Extra information; \$78

- What is the total distance athletes run and bike? 133.5 miles; 2.2 miles
- How many hours does the gymnast practice per week? 30 hours per week; 5 hours per day