

LESSON

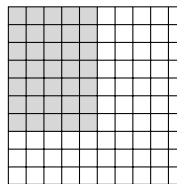
Reteach

3-4 *Dividing Decimals by Integers*

You can use models to divide decimals by integers.

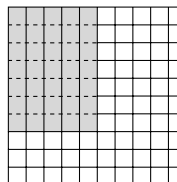
Divide $0.35 \div 5$.

Represent 0.35 by shading 35 out of 100 squares.



Divide the shaded area into 5 equal parts.

Each part is made up of 7 squares. This represents 0.07.

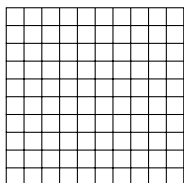


$0.35 \div 5 = 0.07$ or $5 \overline{)0.35} \begin{array}{r} 0.07 \end{array}$

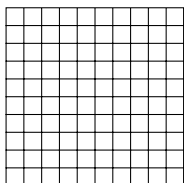
Notice that the decimal point in the quotient is directly above the decimal point in the dividend.

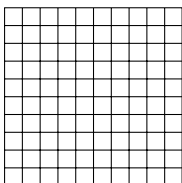
Use the model to divide.

1. $0.48 \div 4$

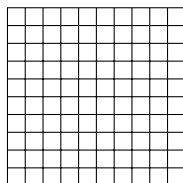


2. $1.8 \div 3$





3. $0.16 \div 4$



Divide. Draw models to help you.

4. $0.56 \div 8$

5. $0.75 \div 5$

6. $7.2 \div 9$

7. $10.5 \div 5$

8. $6.4 \div 16$

9. $7.08 \div 6$

LESSON Practice A

3-4 Dividing Decimals by Integers

Match each division with the correct quotient.

- | | | | |
|------------------|---------|----------------------|----------|
| 1. $4.5 \div 3$ | A. 0.8 | 9. $2.79 \div 3$ | R. 2.4 |
| 2. $6.4 \div 8$ | B. 1.21 | 10. $9.45 \div (-7)$ | S. 0.93 |
| 3. $8.1 \div 9$ | C. 1.15 | 11. $21.6 \div 9$ | T. 12.3 |
| 4. $4.84 \div 4$ | D. 1.5 | 12. $-2.5 \div 5$ | U. -1.35 |
| 5. $1.68 \div 8$ | E. 0.9 | 13. $24.6 \div 2$ | V. 0.59 |
| 6. $5.04 \div 7$ | F. 0.91 | 14. $7.7 \div (-11)$ | W. -1.31 |
| 7. $6.9 \div 6$ | G. 0.21 | 15. $5.9 \div 10$ | X. -0.5 |
| 8. $4.55 \div 5$ | H. 0.72 | 16. $-10.48 \div 8$ | Y. -0.7 |

Divide. Estimate to check whether each answer is reasonable.

- | | | |
|-----------------------------------|-----------------------------------|--------------------------------------|
| 17. $5.4 \div 9$
<u>0.6</u> | 18. $0.66 \div 3$
<u>0.22</u> | 19. $15.3 \div (-6)$
<u>-2.55</u> |
| 20. $-2.8 \div 14$
<u>-0.2</u> | 21. $13.04 \div 8$
<u>1.63</u> | 22. $-5.5 \div 11$
<u>-0.5</u> |
23. Alyssa and Kim bought a new volleyball for \$12.95 and a new net for \$16.75. They shared the cost equally. How much did they each pay? \$14.85
24. Dominic's scores for his skating performance were 5.5, 5.2, and 5.5. What was his average score? 5.4

LESSON Practice B

3-4 Dividing Decimals by Integers

Divide. Estimate to check whether each answer is reasonable.

- | | | |
|---------------------------------------|--|--|
| 1. $20.8 \div 8$
<u>2.6</u> | 2. $54.4 \div 5$
<u>10.88</u> | 3. $0.876 \div 6$
<u>0.146</u> |
| 4. $65.6 \div 4$
<u>16.4</u> | 5. $-96.88 \div 7$
<u>-13.84</u> | 6. $50.4 \div 18$
<u>2.8</u> |
| 7. $67.42 \div 4$
<u>16.855</u> | 8. $88.65 \div (-3)$
<u>-29.55</u> | 9. $77.25 \div 5$
<u>15.45</u> |
| 10. $-0.18 \div 4$
<u>-0.045</u> | 11. $41.17 \div (-23)$
<u>-1.79</u> | 12. $74.55 \div 25$
<u>2.982</u> |
| 13. $0.144 \div 4$
<u>0.036</u> | 14. $5.36 \div (-8)$
<u>-0.67</u> | 15. $27.6 \div 12$
<u>2.3</u> |
| 16. $22.08 \div (-3)$
<u>-7.36</u> | 17. $1.976 \div 13$
<u>0.152</u> | 18. $25.56 \div (-5)$
<u>-5.112</u> |
| 19. $0.504 \div 9$
<u>0.056</u> | 20. $170.1 \div 27$
<u>6.3</u> | 21. $5.25 \div (-3)$
<u>-1.75</u> |
22. Doris collects wicker baskets. She spent \$9.56 on 3 baskets at the flea market. Then she found 4 more baskets at a garage sale. She paid \$10.67 for those baskets. What was the average price per basket for all 7 baskets? \$2.89
23. As of January 2002, 3 top college football coaches had the following winning percents in bowl games: 0.740, 0.692, and 0.683. What was their average winning percent? 0.705

LESSON Practice C

3-4 Dividing Decimals by Integers

Divide. Estimate to check whether each answer is reasonable.

- | | | |
|--|--|--------------------------------------|
| 1. $86.24 \div 8$
<u>10.78</u> | 2. $56.64 \div 4$
<u>14.16</u> | 3. $0.735 \div 7$
<u>0.105</u> |
| 4. $75.75 \div 5$
<u>15.15</u> | 5. $92.7 \div 9$
<u>10.3</u> | 6. $243.25 \div 7$
<u>34.75</u> |
| 7. $83.61 \div 3$
<u>27.87</u> | 8. $312.85 \div 5$
<u>62.57</u> | 9. $-0.846 \div 18$
<u>-0.047</u> |
| 10. $67.656 \div 12$
<u>5.638</u> | 11. $395.55 \div (-15)$
<u>-26.37</u> | 12. $10.353 \div 21$
<u>0.493</u> |
| 13. $581.98 \div (-14)$
<u>-41.57</u> | 14. $-291.89 \div 17$
<u>-17.17</u> | 15. $122.21 \div 11$
<u>11.11</u> |

Simplify each expression.

- | | |
|---|--|
| 16. $2.8 - 14.07 \div 3 + 6.2$
<u>4.31</u> | 17. $26.65 \div 4.1 + 8.047$
<u>14.547</u> |
| 18. $20 \cdot 32.4 \div 6 \times 5$
<u>540</u> | 19. $1.22 \cdot 1.1 \div (-2) - 0.57$
<u>-1.241</u> |
| 20. $(91.89 + 10.51) \div 16 + 1.045$
<u>7.445</u> | 21. $67.44 \div 24 + 0.23 - 14.076$
<u>-11.036</u> |
22. An investor pays \$478.75 to purchase 25 shares of stock. The total price includes a \$35 commission. What is the cost of each share of stock? \$17.75
23. Quinn swam three laps during her swimming class. If her times were 32.02 seconds, 33.48 seconds, and 32.96 seconds, what was her average lap time? 32.82 s

LESSON Reteach

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$0.35 \div 5 = 0.07$ or $5 \overline{)0.35}$

Notice that the decimal point in the quotient is directly above the decimal point in the dividend.

Use the model to divide.

- | | | |
|---------------------------------|-------------------------------|---------------------------------|
| 1. $0.48 \div 4$
<u>0.12</u> | 2. $1.8 \div 3$
<u>0.6</u> | 3. $0.16 \div 4$
<u>0.04</u> |
|---------------------------------|-------------------------------|---------------------------------|

Divide. Draw models to help you.

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| 4. $0.56 \div 8$
<u>0.07</u> | 5. $0.75 \div 5$
<u>0.15</u> | 6. $7.2 \div 9$
<u>0.8</u> |
| 7. $10.5 \div 5$
<u>2.1</u> | 8. $6.4 \div 16$
<u>0.4</u> | 9. $7.08 \div 6$
<u>1.18</u> |