

## Lesson 6-1: Patterns for Dividing with Decimals

### Solve and Share

Content Standard: 5.NBT.A.2

I Can Statement: I can use patterns to solve decimal division problems.

An object is 279.4 centimeters wide. If you divide this object into 10 equal parts, how wide will each part be?

### Lesson 6-1: Independent Practice

Find each quotient.

11.  $4,600 \div 10$   
 $460 \div 10$   
 $46 \div 10$   
 $4.6 \div 10$

12.  $134.4 \div 10^3$   
 $134.4 \div 10^2$   
 $134.4 \div 10^1$   
 $134.4 \div 10^0$

13.  $98.6 \div 1$   
 $98.6 \div 100$   
 $98.6 \div 10$   
 $98.6 \div 1,000$

14.  $136.5 \div 10$

15.  $753 \div 100$

16.  $890.1 \div 10^0$

17.  $3.71 \div 10^2$

18.  $8,100 \div 10^4$

19.  $864 \div 10^3$

20.  $0.52 \div 10^1$

21.  $15.7 \div 1,000$

22.  $7,700 \div 10^2$

23.  $770 \div 10^2$

24.  $77 \div 10^1$

25.  $7.7 \div 10^1$

## Lesson 6-2: Estimate Decimal Quotients Solve and Share

**Content Standard:** 5.NBT.B.7

**I Can Statement:** I can estimate quotients in problems involving decimals.

**A 135.8 foot piece of constructional materials needs to be cut into pieces that are each 16 feet long.  
About how many pieces can be cut?**

## Lesson 6-2: Independent Practice

Find each quotient.

11.  $7 \div 0.85$

12.  $9.6 \div 0.91$

13.  $17.7 \div 3.2$

14.  $91.02 \div 4.9$

15.  $45.64 \div 6.87$

16.  $821.22 \div 79.4$

17.  $22.5 \div 3$

18.  $15.66 \div 9.3$

19.  $156.3 \div 14.5$

## Lesson 6-3: Use Models to Divide by a 1-digit whole number Solve and Share

Content Standard: 5.NBT.B.7

I Can Statement: I can use models to help find quotients in problems involving decimals.

Chris paid \$3.60 for 3 colored pens. Each pen costs the same amount. How much did each pen cost?

### Lesson 6-3: Independent Practice

Find each quotient.

4.  $3 \overline{)1.35}$

5.  $6 \overline{)2.76}$

6.  $5 \overline{)6.85}$

7.  $4 \overline{)5.72}$

8.  $2.38 \div 7$

9.  $4.71 \div 3$

10.  $1.76 \div 8$

11.  $5.36 \div 2$

## Lesson 6-4: Divide by a 1-Digit Whole Number Solve and Share

**Content Standard:** 5.NBT.B.7

**I Can Statement:** I can use models to help find quotients in problems involving decimals.

**A concrete mason separated 107.25 pounds of sand evenly into 3 containers. How much sand did he put into each container?**

## Lesson 6-4: Independent Practice

Find each quotient.

9.  $19 \div 5$

10.  $7.83 \div 3$

11.  $48.62 \div 2$

12.  $62 \div 8$

13.  $35.5 \div 5$

14.  $100 \div 8$

15.  $1.44 \div 9$

16.  $57.20 \div 6$

## Lesson 6-5: Divide by a 2-Digit Whole Number Solve and Share

Content Standard: 5.NBT.B.7

I Can Statement: I can divide decimals by a two-digit whole number.

Stan has a rectangular piece of carpet with an area of 23.4 square meters. The piece of carpet is 13 meters long. What is the width of the piece of carpet?

## Lesson 6-5: Independent Practice

Find each quotient.

5.  $26\overline{)98.8}$

6.  $17\overline{)14.62}$

7.  $25\overline{)160}$

8.  $60\overline{)343.2}$

9.  $27\overline{)91.8}$

10.  $15\overline{)3.9}$

11.  $88\overline{)396}$

12.  $50\overline{)247.5}$

## Lesson 6-6: Use Number Sense to Divide Decimals Solve and Share

**Content Standard:** 5.NBT.B.7

**I Can Statement:** I can use number sense to help solve decimal division problems.

**For the equations below, decide where to place the decimal point in each quotient. Solve these problems any way you choose.**

$$16.38 \div 0.52 = 315$$

$$35.49 \div 1.2 = 29575$$

$$0.4 \div 0.32 = 125$$

## Lesson 6-6: Independent Practice

Find each quotient.

1)  $7.68 \div 1.5 =$

2)  $256.5 \div 2.5 =$

3)  $1,127.84 \div 3.8 =$

4)  $96.0 \div 0.96 =$

5)  $14.73 \div 6.96 =$

6)  $20.15 \div 31.2 =$

7)  $0.98 \div 0.50 =$

8)  $107.22 \div 0.99 =$

9)  $16.456 \div 2.2 =$

## Lesson 6-7: Divide by a decimal Solve and Share

Content Standard: 5.NBT.B.7

I Can Statement: I can divide a decimal by another decimal.

Aaron buys erasers for his pencils. Each eraser costs \$0.20. The total cost is \$1.20. How many erasers does Aaron buy? Solve this problem any way you choose, and show your work.

## Lesson 6-7: Independent Practice

Find each quotient.

1)  $23.56 \div 0.04 =$

2)  $73.2 \div 0.6 =$

3)  $0.3 \div 0.5 =$

4)  $0.62 \div 0.25 =$

5)  $4.56 \div 0.04 =$

6)  $0.02 \div 0.05 =$

7)  $17.25 \div 0.03 =$

8)  $56.8 \div 0.8 =$

9)  $6.24 \div 0.06 =$

## Lesson 6-8: Continue to Divide with Decimals Solve and Share

**Content Standard:** 5.NBT.B.7

**I Can Statement:** I can divide decimals by adding one or more zeros to the dividend if necessary.

**Steven feeds his rabbit 2.4 pounds of food each week. How many weeks will the 8.4 pound bag of food last?**

## Lesson 6-8: Independent Practice

Find each quotient.

1)  $2.08 \div 0.32 =$

2)  $3.01 \div 0.43 =$

3)  $6.51 \div 6.2 =$

4)  $35 \div 0.5 =$

5)  $102.3 \div 4.4 =$

6)  $9.3 \div 0.31 =$

7)  $25.44 \div 0.06 =$

8)  $90 \div 0.42 =$

9)  $3.24 \div 0.48 =$