Long Division with Decimals

Decimals

Name: _____ Date: _____ Grade 6

1. Write the decimal for each quotient.

a 3 ÷ 4 _____

b 1 ÷ 5 _____

c 7 ÷ 10 _____

d 2 ÷ 8 _____

2. Use long division to show that each equation is true.

a 9 ÷ 20 = 0.45

b 3 ÷ 8 = 0.375

c 21 ÷ 25 = 0.84

3. Use long division to find each quotient. Write your answer as a decimal.

a 37 ÷ 4

b 43 ÷ 8

c 58 ÷ 5

4. Use long division to find each quotient. Write your answer as a decimal.

a 417 ÷ 6

b 293 ÷ 4

c 806 ÷ 8

Long Division with Decimals

continued

5. Use long division to find each quotient. Write your answer as a decimal.

a 360 ÷ 48

b 1450 ÷ 16

c 6230 ÷ 40

6. Gas mileage tells how many miles a car can travel on one gallon of gas. Use division to complete the table.

Car	Miles Driven	Gas Used (gallons)	Miles per Gallon
Car A	426	12	
Car B	357	14	
Car C	513	18	

7. Grace reasoned, "$\frac{13}{20}$ is equivalent to $\frac{26}{40}$ and to $\frac{65}{100}$, so the decimal for $\frac{13}{20}$ is 0.65."

a Use long division to show that Grace is correct.

b Use long division to check whether the decimal for $\frac{26}{40}$ is also 0.65.

8. Noah calculated 1356 ÷ 30 and got 4.52. Priya says he made a mistake. Is Priya correct? Explain your thinking.

Noah's answer

1356 ÷ 30 = 4.52