



DIVIDING DECIMALS

NAME:

DATE:

1 Estimate each quotient. Then match the division statement with the quotient that would result from dividing.

	Division Statement	Estimates	Quotients
a.	$81.2 \div 5$	$80 \div 5 = 16$	29.7
b.	$178.2 \div 6$	$180 \div 6 = 30$	0.101
c.	$104.84 \div 4$	$104 \div 4 = 26$	16.24
d.	$0.707 \div 7$	$0.7 \div 7 = 0.1$	26.21

2 Divide by thinking in tenths.

a) $3.2 \div 4 = 0.8$

$$4 \overline{)3.2} \quad \begin{array}{r} 0 \\ \cdot \\ 8 \end{array}$$

b) $2.7 \div 3 = 0.9$

$$3 \overline{)2.7} \quad \begin{array}{r} 0 \\ \cdot \\ 9 \end{array}$$

c) $5.6 \div 8$

d) $1.5 \div 5$

3 Divide by breaking the decimal into parts.

a) $6.3 \div 3$

b) $8.2 \div 2$

c) $9.63 \div 3$

d) $8.44 \div 4$

4 Match the division statements that result in the same quotient. Then match to the correct quotient.

	Decimal Divisor	Whole Divisor	Quotient
$812. \div 5$	$81.2 \div 0.5$	$23.4 \div 6$	37.1
$23.4 \div 6$	$2.34 \div 0.6$	$148.4 \div 4$	3.9
$148.4 \div 4$	$14.84 \div 0.4$	$5.6 \div 7$	0.8
$5.6 \div 7$	$0.56 \div 0.7$	$812 \div 5$	162.4

CONTINUED ON NEXT PAGE

NAME:

DATE:

5 Show how to divide each division statement using the division algorithm.

a) $91.2 \div 6$

b) $5403.6 \div 9$

6 a) Brett did this division: $149.1 \div 7 = 213$. Is he correct? Explain how you know.

b) Sarit did this division: $51.2 \div 4 = 128$. Is she correct? Explain how you know.

c) Avery did this division: $26.08 \div 8 = 326$. Is she correct? Explain how you know.

7 Determine each quotient.

a) $12.8 \div 8$

b) $16.1 \div 7$

c) $20.8 \div 4$

QUESTIONS**DIVIDING DECIMALS**

NAME:

DATE:

8 Determine each quotient.

a) $3.28 \div 8$

b) $21.78 \div 9$

c) $18.42 \div 6$

9 Determine each quotient.

a) $10.246 \div 2$

b) $15.738 \div 3$

c) $21.368 \div 4$