

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) $3.2 \div 4 = 0.8$ b) $2.7 \div 3 = 0.9$ c) $5.6 \div 8$ d) $1.5 \div 5$

Handwritten calculations for a) and b):

a) $4 \overline{) 3.2} = 0.8$

b) $3 \overline{) 2.7} = 0.9$

- 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.

Handwritten calculations for matching:

$812 \div 5$ (green)

$23.4 \div 6$ (blue)

$148.4 \div 4$ (red)

$5.6 \div 7$ (orange)

Decimal Divisor:

- $81.2 \div 0.5$ (green)
- $2.34 \div 0.6$ (blue)
- $14.84 \div 0.4$ (red)
- $0.56 \div 0.7$ (orange)

Whole Divisor:

- $23.4 \div 6$ (blue)
- $148.4 \div 4$ (red)
- $5.6 \div 7$ (orange)
- $812 \div 5$ (green)

Quotient:

- 37.1
- 3.9
- 0.8
- 162.4

Matching arrows:

- $81.2 \div 0.5 \rightarrow 162.4$ (green)
- $2.34 \div 0.6 \rightarrow 3.9$ (blue)
- $14.84 \div 0.4 \rightarrow 37.1$ (red)
- $0.56 \div 0.7 \rightarrow 0.8$ (orange)
- $23.4 \div 6 \rightarrow 3.9$ (blue)
- $148.4 \div 4 \rightarrow 37.1$ (red)
- $5.6 \div 7 \rightarrow 0.8$ (orange)
- $812 \div 5 \rightarrow 162.4$ (green)

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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) $21.368 \div 4$