

Name: Teacher

Unit 3: Multiplying & Dividing Decimals - Unit test review

Outcome: N6.4 Extend understanding of multiplication and division to decimals (1-digit whole number multipliers and 1-digit natural number divisors).

1. Estimate each product or quotient. Show your work.

a) 20.642×6 est. 120

b) 2.1×4 est. 8

c) $67.9 \div 8$ est. 8

d) $23.091 \div 3$ est. 8

2. Multiply or divide. Show your work.

a) $7.89 \text{ cm} \times 6$
$$\begin{array}{r} 5 \\ 7.89 \\ \times 6 \\ \hline 47.34 \text{ cm} \end{array}$$

b) $\$23.84 \div 7$

$$\begin{array}{r} 03.405 \\ 7 \overline{) 23.840} \\ \underline{-21} \\ 28 \\ \underline{-28} \\ 040 \\ \underline{-35} \\ 5 \end{array}$$
 $\$3.41$

3. Jason works in a pharmacy. In 1 h, he fills 4 tubes of prescriptive cream. Each tube contains 4.78 ml of cream. How much cream did Jason package into tubes? Show your work.

1h = 4 tubes.
1 tube = 4.78ml.

$$\text{cup} + \text{cup} + \text{cup} + \text{cup} = \underline{\hspace{2cm}} \quad \begin{array}{r} 3 \\ 4.78 \\ \times 4 \\ \hline 19.12 \text{ ml} \end{array}$$

Jason packaged 19.12ml of cream.

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4. Multiply as you would whole numbers. Estimate to place the decimal point.
Show your work.

a) 0.634×2

$$\begin{array}{r} 634 \\ \times 2 \\ \hline 1268 \end{array}$$

est. decimal
 $0.6 \times 2 = 1.2$
or $1 \times 2 = 2$

1.268

b) 0.09201×8

$$\begin{array}{r} 9201 \\ \times 8 \\ \hline 73608 \end{array}$$

$0.09 \times 8 = 0.72$

0.73608

c) 0.042×3

$$\begin{array}{r} 42 \\ \times 3 \\ \hline 126 \end{array}$$

$0.04 \times 3 = 0.12$

0.126

5. Estimate and circle the correct quotient for each division question.

Question	Possible Quotients		
a) $8.124 \div 6$ <i>$7.2 \div 6 = 1.2$</i>	<u>1.354</u>	13.54	134.5
b) $37.92 \div 3$	0.1264	1.264	<u>12.64</u>
c) $7.624 \div 8$	<u>0.953</u>	9.53	95.3

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6. Multiply. Describe the strategy you use.

$$0.024 \times 6 = \underline{0.144}$$

$$0.0024 \times 6 = \underline{0.0144}$$

$$0.00024 \times 6 = \underline{0.00144}$$

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \end{array}$$

I multiplied 24×6 , then counted decimal places.

7. The weight of a baseball is 5.25 ounces. What is the combined mass of 5 baseballs? Show your work.

?5

$$\begin{array}{r} 5.25 \\ \times 5 \\ \hline 26.25 \text{ ounces} \end{array}$$

The combined mass of 5 baseballs is 26.25 ounces.

8. A student said that since $11 \times 2 = 22$, then 0.0011×2 is 0.22.

Is the student's reasoning correct? Explain

No, he ignored the two zeros.
It should be 0.0022

9. A student divided 2.345 by 5 and got 4.69.

a) Without dividing, how do you know the answer is incorrect?

5 does not go into 2, 4 ~~times~~ times.

$$2.345 \div 5 \neq 4.69$$

b) What do you think the student did wrong?

I think he put the decimal in the wrong place.

c) What is the correct answer? How can you check?

0.469

$$\begin{array}{r} 0.469 \\ \times 5 \\ \hline 2.345 \checkmark \end{array}$$

$$\begin{array}{r} 0.469 \\ 5 \overline{) 2.345} \\ \underline{20} \downarrow \\ 34 \\ \underline{30} \downarrow \\ 45 \end{array}$$

$$100 \div 10 = 10$$

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10. Alice rode her bike 12.67 km in 10 min. Jesse rode his bike 8.43 km in 8 min. Who travelled farther in 1 min.? Show your work.

Alice

$$10 \overline{) 12.67}$$

1.267 km

Jesse

$$8 \overline{) 8.4300}$$

1.053 km

Alice travelled farther in 1 min.

11. One week, Clarke walked to school 4 days. He walked 31.843 km in total. The following week, Clarke walked to school all 5 days. How far did Clarke walk the second week? Show your work.

$$4 \overline{) 31.84300}$$

7.96075

7.96075 km in 1 day

$$\times 5$$

39.80375

Clarke walked 39.80375 km in 5 days.