

1) What is the fraction for 0.25 ✓

2) Where does the decimal go in the answer for the following:

$$3.6 \times 0.5 = 1.80 \quad *$$

$$\frac{23}{99}$$

3) What is a fraction between 0.5 and 0.7

$$\frac{6}{10}$$

4) 0.7×0.6

$$0.42$$

5) Temperature at 7AM was 8. By noon it rose 2 C, then dropped by 1 C before 3 PM. What was the temperature by 3 PM?

$$9^{\circ}\text{C}$$

6) 0.2×6

$$1.2$$

7) What is the median for the data set : 3,4,5,6,8,9,10

8) What number is divisible by 6? a) ~~174~~ b) ~~324~~ c) ~~850~~

9) Put a digit at the end of this number to make it divisible by 3



10) $1/5$ of 20

$$4 \quad 71 \text{ — } 1 \quad 717 \quad 714$$

2 decimals that have a product of 0.25

$$0.5 \times 0.5$$

$$\overline{0.1} \times 0.25$$

$$0.1 \times 2.5$$

2 decimals that have a product of 0.12

$$0.2 \times 0.6 \quad 0.1 \times 1.2$$

$$0.4 \times 0.3$$

2 decimals that have a product of 0.54

$$0.1 \times 5.4 \quad 0.2 \times 2.7$$

$$0.6 \times 0.9$$

Steven make \$12.50 for an hour of overtime.
How much does he make in 4.5 hours?

	12	0.50
4	48	2
0.5	6	0.25

\$56.25

Divide

$$56 \div 8 = 7$$

$$56 \div 0.8 = 70$$

$$5.6 \div 0.8 = 7$$

$$56 \div 0.7 = 80$$

$$56 \div 0.07 = 800$$

$$56 \div 0.007 = 8000$$

$$63 \div 9 = 7$$

$$63 \div 0.9 = 70$$

$$63 \div 0.09 = 700$$

$$63 \div 0.009 = 7000$$

0

ExampleDivide: $52.1 \div 0.9$ **A Solution**Estimate first: $52.1 \div 0.9$

Write each decimal to the nearest whole number, then divide.

$$52 \div 1 = 52$$

So, $52.1 \div 0.9$ is about 52.

52.1 is closer to 52.
0.9 is closer to 1.

Divide as you would whole numbers.

$$521 \div 9$$

$$\begin{array}{r}
 5788 \leftarrow \text{quotient} \\
 \text{divisor} \rightarrow 9 \overline{)52100} \leftarrow \text{dividend} \\
 \underline{45} \\
 71 \\
 \underline{63} \\
 80 \\
 \underline{72} \\
 80 \\
 \underline{72} \\
 8
 \end{array}$$

Divide until the quotient has 2 more digits than the estimate. Then we can write the quotient to the nearest tenth.

If the quotient is not exact, write zeros in the dividend, then continue to divide.

Since the estimate has 2 digits, divide until there are 4 digits in the quotient.

Since the estimate was 52, place the decimal point so the quotient is close to 52: $52.1 \div 0.9 \doteq 57.88$

In the question, the dividend and divisor were given to the nearest tenth.

So, we write the quotient to the nearest tenth.

$52.1 \div 0.9 \doteq 57.90$, or 57.9

57.88 is closer to 57.90 than to 57.80.

We can use a calculator when the divisor has more than 1 digit.



Decimal is placed _____

1. Estimate to place the decimal point in each quotient.

a) $17.5 \div 2.5 = 7000$

b) $124.6 \div 0.8 = 15575$

c) $57.96 \div 4.6 = 1260$

|

2. Divide.

a) $9.45 \div 0.3$

b) $92.34 \div 0.6$

c) $1.8 \div 0.2$

3. a) Divide $428 \div 16$.
- b) Use only the result from part a and estimation.
Find each quotient.
- i) $42.8 \div 1.6$ ii) $4280 \div 160$ iii) $4.28 \div 0.16$
- c) What do you notice about your answers in part b?
Explain.

5. Anita bought 5.7 m of curtain material.
It cost \$170.94. What is the cost of 1 m of material?



2. Divide. Describe any patterns you see.

- | | |
|----------------------|---------------------|
| a) $124.5 \div 10$ | b) $124.5 \div 0.1$ |
| $124.5 \div 100$ | $124.5 \div 0.01$ |
| $124.5 \div 1000$ | $124.5 \div 0.001$ |
| $124.5 \div 10\,000$ | $124.5 \div 0.0001$ |

3. Why do all these division statements have 6 as the answer?

- a) $30 \div 5$ b) $3.0 \div 0.5$ c) $0.3 \div 0.05$ d) $300 \div 50$

Which one is easiest to calculate? Explain.

3. Why do all these division statements have 6 as the answer?

a) $30 \div 5$ b) $3.0 \div 0.5$ c) $0.3 \div 0.05$ d) $300 \div 50$

Which one is easiest to calculate? Explain.

4. Estimate to choose the correct quotient for each division question.

Question	Possible Quotients		
a) $59.5 \div 5$	119	11.9	1.19
b) $195.3 \div 0.2$	9765	976.5	97.65
c) $31.32 \div 0.8$	3915	391.5	39.15

5. Use paper and pencil to divide.

a) $1.5 \div 0.6$ b) $2.24 \div 0.7$ c) $1.28 \div 0.8$ d) $2.16 \div 0.9$

7. A toonie is approximately 0.2 cm thick.
How many toonies are in a stack of toonies 17.4 cm high?

106 UNIT 3: Fractions, Decimals, and Percents

8. The area of a large rectangular flowerbed is 22.32 m^2 .
The width is 0.8 m. What is the length?
9. A 0.4-kg bag of oranges costs \$1.34.
- Estimate. About how much does 1 kg of oranges cost?
 - What is the actual cost of 1 kg of oranges?
How do you know your answer is reasonable?
 - Suppose you spent \$10 on oranges.
What mass of oranges did you buy?

- 11.** The quotient of two decimals is 0.12. What might the decimals be?
Write as many different possible decimal pairs as you can.