



Decimal arithmetic

GRADE 5 MATH

Name _____

Date _____

Before every calculation write roughly how big the answer should be. Then say which rule the question needs.

WORKED EXAMPLE

Add and subtract: align the places. Multiply: multiply the digits and count the places.

Divide: how many fit? Multiplying by less than 1 makes it smaller; dividing by less than 1 makes it bigger.

1. Work out $3.5 + 0.42$ **FLUENCY**

Show your thinking

Answer**2. Work out $12.4 + 3.75$** **FLUENCY**

Show your thinking

Answer

3. Work out $0.8 + 0.15$

FLUENCY

Show your thinking

Answer

4. Work out $4.2 - 1.75$

FLUENCY

Show your thinking

Answer

5. Work out $5 - 2.36$

FLUENCY

Show your thinking

Answer

6. Work out $10 - 0.07$

FLUENCY

Show your thinking

Answer

7. Work out 1.5×0.6

FLUENCY

Show your thinking

Answer

8. Work out 2.4×0.25

FLUENCY

Show your thinking

Answer

9. Work out 0.3×0.4

FLUENCY

Show your thinking

Answer

10. Work out $4.5 \div 0.5$. Say how many 0.5s fit in 4.5.

APPLICATION

Show your thinking

Answer

11. Work out $7.2 \div 0.8$. Say how many 0.8s fit in 7.2.

APPLICATION

Show your thinking

Answer

- 12.** Jo works out $4.2 - 1.75$ by taking the smaller digit from the larger in each column, getting 3.55. Show why that cannot be right without doing the subtraction.

Show your thinking

Answer

- 13.** $1.5 \times 0.6 = 0.9$. Explain why the answer is smaller than 1.5 but bigger than 0.6.

Show your thinking

Answer

14. $7.2 \div 0.8 = 9$, and $72 \div 8 = 9$ as well. Explain why multiplying both numbers by 10 does not change the answer.

REASONING

Show your thinking

Answer

15. A ribbon 2.5 m long is cut into pieces 0.4 m long. How many pieces, and how much is left over?

APPLICATION

Show your thinking

Answer

16. Why does adding decimals need the points lined up, when multiplying them does not?

REASONING

Show your thinking

Answer