



YR6 PROGRESSION IN MASTERY LESSON PACK - REASON FROM KNOW FACTS

FLUENCY 1

Complete the stem sentences.

_____ is the inverse of _____.

_____ is the inverse of _____.

Now, use the inverse to complete these calculations.

$$706 - 125 = 581$$

$$15 \times 35 = 525$$

$$153 \div 9 = 17$$

$$581 + \underline{\quad} = 706$$

$$525 \div 15 = \underline{\quad}$$

$$17 \times \underline{\quad} = 153$$

FLUENCY 2

Complete these calculations.

$$104 \div 4 = 26 \quad 104 \div \underline{\quad} = 13$$

$$1,040 \div \underline{\quad} = 26 \quad 1,040 \div 80 =$$

$$26 \times 6 = 156 \quad 26 \times 3 = \underline{\quad}$$

$$2.6 \times 6 = \underline{\quad} \quad 260 \times \underline{\quad} = 1,560$$

FLUENCY 3

Use this fact - $45 \times 7 = 315$ - to work out:

$$45 \times 8 =$$

$$45 \times 6 =$$

$$315 \div 14 =$$

$$315 \div 3.5 =$$

$$22.5 \times 7 =$$

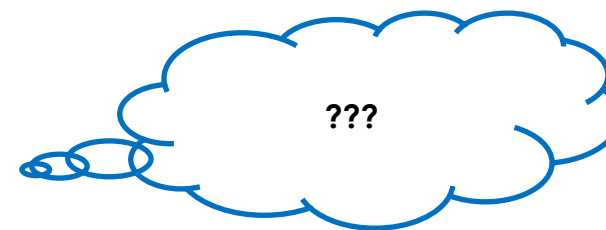
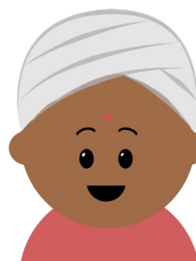
$$22.5 \times 14 =$$

$$450 \times 3.5 =$$

$$450 \times 0.7 =$$

FLUENCY 4

Ranjit worked out the solution to $5,600 \div 8$ by using a known fact.



Give 4 facts he could have used.

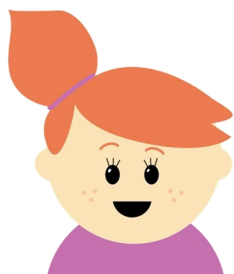




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REASONING 1

Spot Millie's mistake.



If I know $144 \div 36 = 4$, then $144 \div 18$ must equal 2 because 18 is half of 36!

REASONING 2

True or False?

$$2 \times 67 \times 5 = 67 \times 10$$

Explain how you know.

REASONING 3

Convince Me



I can use the calculation $6 \times 7 = 42$ to work out the answers to these calculations.

$$0.6 \times 0.7$$

$$0.007 \times 6$$

$$42 \times 0.7$$

REASONING 4

Which of these calculations is the Odd One Out?

$$67 \times 8 =$$

$$670 \div 8 =$$

$$0.8 \times 6.7 =$$

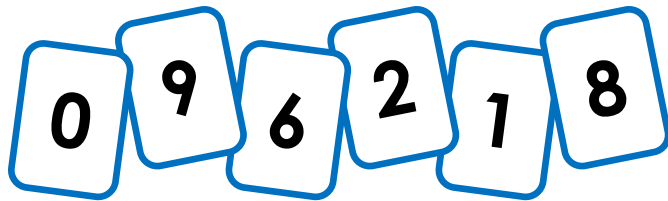




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PROBLEM SOLVING 1

Write as many facts as you can using the digit cards only once in each calculation.



PROBLEM SOLVING 2

If the answer is

564

What could the question be?



Find at least 8 facts.

