

# 29/01/21

## Maths Tasks

Use multiplication facts that you know to work out the answers to these calculations.

### Blue Challenge

Solve the first fact to help you solve the other facts.

$$4 \times 5 = 20$$
$$40 \times 5 = 200$$
$$400 \times 5 = 2,000$$

$$9 \times 2 = 18$$
$$90 \times 2 = 180$$
$$900 \times 2 = 1,800$$

$$8 \times 5 = 40$$
$$80 \times 5 = 400$$
$$800 \times 5 = 4,000$$

$$12 \times 2 = 24$$
$$120 \times 2 = 240$$
$$1,200 \times 2 = 2,400$$

$$6 \times 5 = 30$$
$$60 \times 5 = 300$$
$$600 \times 5 = 3,000$$

$$7 \times 10 = 70$$
$$70 \times 10 = 700$$
$$700 \times 10 = 7,000$$

$$11 \times 5 = 55$$
$$110 \times 5 = 550$$
$$1,100 \times 5 = 5,500$$

$$13 \times 2 = 26$$
$$130 \times 2 = 260$$
$$1,300 \times 2 = 2,600$$

### Green Challenge

Solve the first fact to help you solve the other facts.

$$7 \times 3 = 21$$
$$70 \times 3 = 210$$
$$7 \times 30 = 210$$
$$7 \times 300 = 2,100$$

$$9 \times 4 = 36$$
$$90 \times 4 = 360$$
$$9 \times 40 = 360$$
$$9 \times 400 = 3,600$$

$$5 \times 8 = 40$$
$$5 \times 80 = 400$$
$$5 \times 800 = 4,000$$
$$50 \times 8 = 400$$

$$12 \times 3 = 36$$
$$120 \times 3 = 360$$
$$12 \times 30 = 360$$
$$12 \times 300 = 3,600$$

$$6 \times 4 = 24$$
$$60 \times 4 = 240$$
$$6 \times 40 = 240$$
$$6 \times 400 = 2,400$$
$$600 \times 4 = 2,400$$

$$9 \times 8 = 72$$
$$9 \times 80 = 720$$
$$90 \times 8 = 720$$
$$9 \times 800 = 7,200$$
$$900 \times 8 = 7,200$$

### White Challenge

For each calculation, think of the known fact that you already know and use this to help you solve each calculation.

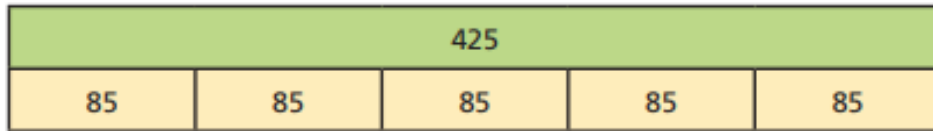
$$30 \times 9 = 270$$
$$80 \times 3 = 240$$
$$4 \times 60 = 240$$
$$200 \times 12 = 2,400$$
$$700 \times 5 = 3,500$$
$$8 \times 600 = 4,800$$
$$11 \times 900 = 9,900$$
$$70 \times 12 = 840$$
$$400 \times 30 = 12,000$$
$$600 \times 40 = 24,000$$
$$800 \times 50 = 40,000$$
$$20 \times 500 = 10,000$$
$$60 \times 900 = 54,000$$
$$90 \times 400 = 36,000$$

$$5 \times 900 = 4,500$$
$$12 \times 300 = 3,600$$
$$8 \times 700 = 5,600$$
$$400 \times 8 = 3,200$$
$$1,100 \times 9 = 9,900$$
$$50 \times 70 = 3,500$$
$$70 \times 20 = 1,400$$
$$80 \times 80 = 6,400$$
$$2,000 \times 80 = 160,000$$
$$3,000 \times 120 = 360,000$$
$$5,000 \times 70 = 350,000$$
$$7,000 \times 400 = 2,800,000$$

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## Maths Tasks – White+ Extension

The bar model shows  $85 \times 5 = 425$



Explain how to work out these calculations from the given fact.

$$85 \times 6$$

$$86 \times 5$$

To work out  $85 \times 6$ , calculate  $85 \times 5$  using the bar model and then add on 85 more.

$$85 \times 6 = 85 \times 5 + 85 = 510.$$

To work out  $86 \times 5$ , calculate  $85 \times 5$  using the bar model and then add on 5 more.

$$86 \times 5 = 85 \times 5 + 5 = 430.$$

Ben is using  $15 \times 4 = 60$  to solve other calculations.

He says,

1,500 x 4 will give the same answer as 150 x 40. They both equal 6,000.

Is he correct? Explain clearly how you know.

Ben is correct.  $1,500 \times 4$  does equal 6,000 and  $150 \times 40$  does equal 6,000.

Lucy is using  $18 \times 6 = 108$  to solve other calculations.

She says,

18,000 x 6 will give the same answer as 6,000 x 18. They both equal 180,000.

Is she correct? Explain clearly how you know.

Lucy is incorrect.  $18,000 \times 6$  and  $6,000 \times 18$  do give the same answer, however the correct answer is 108,000, not 180,000 as she said.