

Year 6



Mathematics

Reasoning - number

Mixed operations

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
School name						

1

Write the missing numbers.

**2 marks**

$$98 + \boxed{} = 473$$

$$17 \times \boxed{} = 85$$

2

Write the missing numbers.

**2 marks**

$$105 + \boxed{} = 580$$

$$150 \quad \times \quad 7 \quad = \quad \boxed{}$$

3

Otis is thinking of a number.

He multiplies his number by 8

Then, he adds 120.

The result is 496.

What was the original number Otis was thinking of?

**1 mark**

4

Fill in the missing numbers.

$$\boxed{} - 164 = 220$$

$$34 \times \boxed{} = 374$$

**2 marks****5**

Here are some number cards.



Use two cards to complete each multiplications below.
You may only use each card once.

$$\boxed{} \times \boxed{} = 28$$

$$\boxed{} + \boxed{} = 13$$

$$\boxed{} \div \boxed{} = 3$$

$$\boxed{} - \boxed{} = 4$$

**2 marks**

6Write the symbol $<$, $>$ or $=$ in each box to make the statements correct.

4×9

$40 - 5$

$56 \div 7$

$6 + 3$

2 marks

$50 - 34$

$32 \div 2$

$90 + 14$

12×9

7

Write the missing number.

$(14 + 3) \times 2 - \boxed{} = 34$

1 mark**8**Write the correct sign $=$, $<$ or $>$ to make each statement correct.

$153 - 118$

7×5

2 marks

$320 \div 8$

$18 + 15$

14×4

8×8

$154 + 34$

12×11

9

Write in the missing numbers.

$$\boxed{} - 215 = 504$$

$$23 \times \boxed{} = 276$$

$$216 \div \boxed{} = 54$$

2 marks

10

Write the correct sign =, < or > to make each statement correct.

$$8 \times 9 - 7 \quad \boxed{} \quad 7 \times 5 + 8$$

$$7 + 8 \div 4 \quad \boxed{} \quad 18 \div 3 + 7$$

$$18 - 5 \times 2 \quad \boxed{} \quad 8 \times 3 - 4$$

$$11 + 5 + 4 \quad \boxed{} \quad 12 \times 11 - 80$$

2 marks

11

Write in the missing numbers.

$$\boxed{} \div 5 = 76$$

$$586 + \boxed{} = 714$$

$$30 \times \boxed{} = 270$$

2 marks



12

Write the correct sign +, -, x or ÷ to make each statement correct.

$$5 \square 7 = 48 \square 13$$

$$11 \square 7 = 6 \square 3$$

$$20 \square 4 = 12 \square 2$$

$$7 \square 3 = 12 \square 9$$



2 marks

13

Write in the missing numbers.

$$\square \div 4 + 8 = 20$$

$$35 + 8 \times \square = 123$$

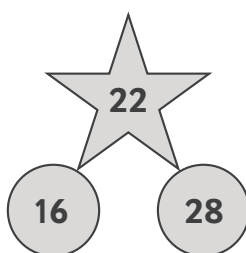


2 marks

14

The diagram below follows the rule:

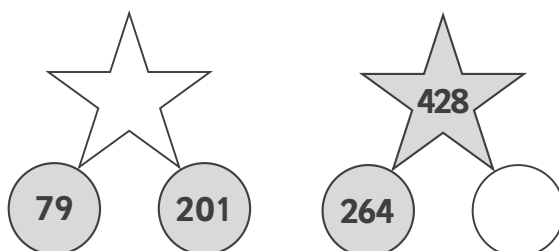
“The star is found by halving the sum of the circles.”



Use the information above to fill in the missing numbers.



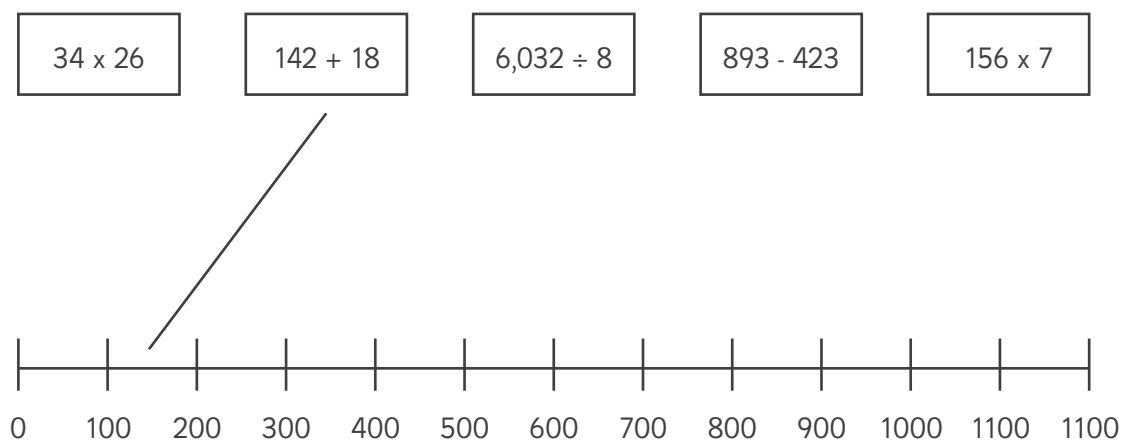
2 marks



15

Draw a line from each card to the correct part of the number line.

One has been done for you.



2 marks

16

Use the digit cards below to complete the calculation.

3	7	5	8
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2 marks

$$\boxed{} \times \boxed{} - \boxed{} = \boxed{}$$

$$\boxed{} \times \boxed{} - \boxed{} = \boxed{}$$



17

Here are some number cards.



2 marks

Use each number card **once** to make the answer to each calculation **the same**.

$$\boxed{3} \times \boxed{} =$$

$$\boxed{18} + \boxed{} =$$

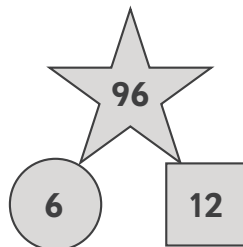
$$\boxed{} \div \boxed{2} =$$

$$\boxed{} - \boxed{6} =$$

18

The diagram below follows the rule:

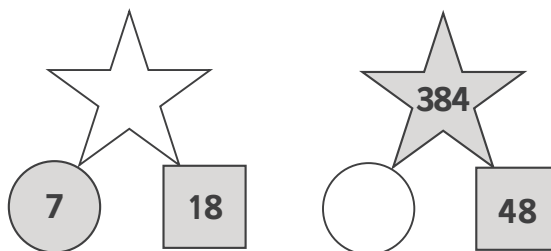
“To find the value of the star, square the number in the circle, add the number in the square and double the result.”



Use the information above to fill in the missing numbers.



2 marks



19

Ellen is thinking of a number.
She divides her number by 4.
Then, she subtracts 15.
The result is 9.

☐**1 mark**

What was the original number Ellen was thinking of?

20

Fill in the missing numbers.

$$\boxed{} - 315 = 570$$

$$18 \times \boxed{} = 360$$

☐**2 marks**☐**total marks**

1

Write the missing numbers.



2 marks

$$98 + \boxed{375} = 473$$

$$17 \times \boxed{5} = 85$$

2

Write the missing numbers.



2 marks

$$105 + \boxed{475} = 580$$

$$150 \times 7 = \boxed{1,050}$$

3

Otis is thinking of a number.

He multiplies his number by 8

Then, he adds 120.

The result is 496.

What was the original number Otis was thinking of?



1 marks

47



4

Fill in the missing numbers.

$$\boxed{384} - 164 = 220$$

$$34 \times \boxed{11} = 374$$

**2 marks****5**

Here are some number cards.



Use two cards to complete each multiplications below.
You may only use each card once.

$$\boxed{7} \times \boxed{4} = 28$$

$$\boxed{8} + \boxed{5} = 13$$

$$\boxed{9} \div \boxed{3} = 3$$

$$\boxed{6} - \boxed{2} = 4$$

**2 marks**

6Write the symbol $<$, $>$ or $=$ in each box to make the statements correct.

$$4 \times 9$$

36

 $>$

$$40 - 5$$

35

$$56 \div 7$$

8

 $<$

$$6 + 3$$

9

$$50 - 34$$

16

 $=$

$$32 \div 2$$

16

$$90 + 14$$

104

 $<$

$$12 \times 9$$

108

2 marks

7

Write the missing number.

$$(14 + 3) \times 2 - \boxed{0} = 34$$

1 mark

8Write the correct sign $=$, $<$ or $>$ to make each statement correct.

$$153 - 118$$

35

 $=$

$$7 \times 5$$

35

$$320 \div 8$$

40

 $>$

$$18 + 15$$

33

$$14 \times 4$$

56

 $<$

$$8 \times 8$$

64

$$154 + 34$$

188

 $>$

$$12 \times 11$$

132

2 marks



9

Write in the missing numbers.

719

$$- 215 = 504$$

$$23 \times \boxed{12} = 276$$

$$216 \div \boxed{4} = 54$$



2 marks

10

Write the correct sign =, < or > to make each statement correct.

$$8 \times 9 - 7$$

65



$$7 \times 5 + 8$$

43

$$7 + 8 \div 4$$

9



$$18 \div 3 + 7$$

13

$$18 - 5 \times 2$$

8



$$8 \times 3 - 4$$

20

$$11 + 5 + 4$$

20



$$12 \times 11 - 80$$

52



2 marks

11

Write in the missing numbers.

380

$$\div 5 = 76$$

$$586 + \boxed{128} = 714$$

$$30 \times \boxed{9} = 270$$



2 marks



12

Write the correct sign +, -, x or ÷ to make each statement correct.

$$5 \boxed{\times} 7 = 48 \boxed{-} 13$$

$$11 \boxed{+} 7 = 6 \boxed{\times} 3$$

$$20 \boxed{+} 4 = 12 \boxed{\times} 2$$

$$7 \boxed{\times} 3 = 12 \boxed{+} 9$$



2 marks

13

Write in the missing numbers.

$$\boxed{48} \div 4 + 8 = 20$$



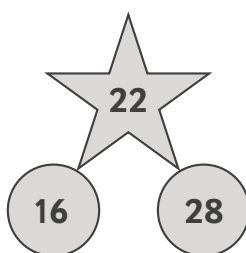
2 marks

$$35 + 8 \times \boxed{11} = 123$$

14

The diagram below follows the rule:

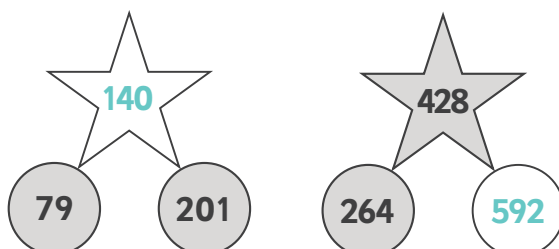
“The star is found by halving the sum of the circles.”



Use the information above to fill in the missing numbers.



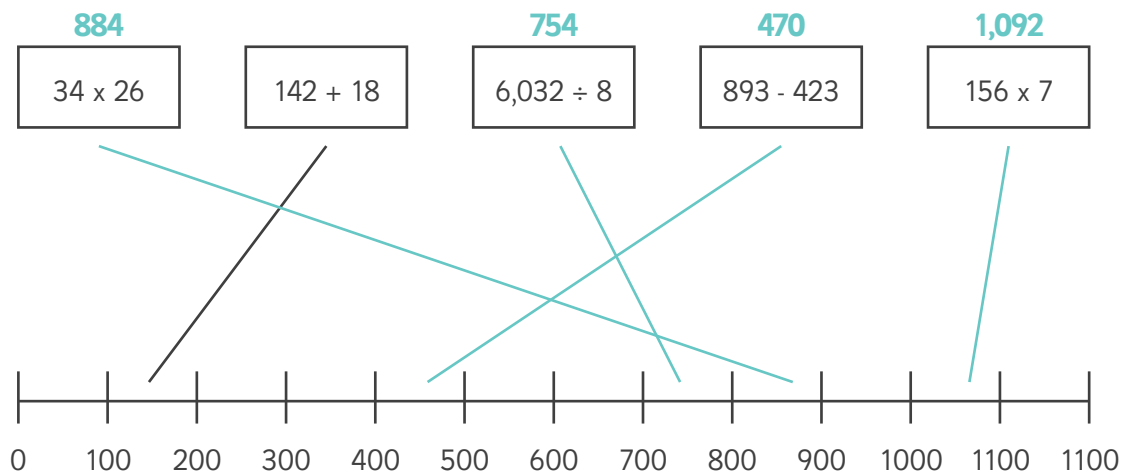
2 marks



15

Draw a line from each card to the correct part of the number line.

One has been done for you.



☐ 2 marks

16

Use the digit cards below to complete the calculation.

3 7 5 8

☐ 2 marks

$$3 \times 5 - 7 = 8$$

$$3 \times 5 - 8 = 7$$

17

Here are some number cards.



2 marks

Use each number card **once** to make the answer to each calculation **the same**.

$$\boxed{3} \times \boxed{7} =$$

$$\boxed{18} + \boxed{3} =$$

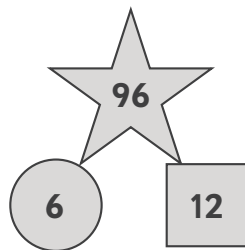
$$\boxed{42} \div \boxed{2} =$$

$$\boxed{27} - \boxed{6} =$$

18

The diagram below follows the rule:

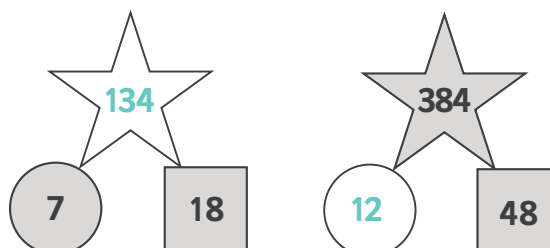
“To find the value of the star, square the number in the circle, add the number in the square and double the result.”



Use the information above to fill in the missing numbers.



2 marks



19

Ellen is thinking of a number.
She divides her number by 4.
Then, she subtracts 15.
The result is 9.

1 mark

What was the original number Ellen was thinking of?

96**20**

Fill in the missing numbers.

885 $- 315 = 570$ $18 \times$ **20** $= 360$ **2 marks**