

# MIXED OPERATIONS

CONTENT DOMAIN REFERENCES:  
C1, C2, C4, C6, C7, C8, C9


# KS2 SATS

PRACTICE QUESTIONS BY TOPIC

1

Write the missing numbers.

[2012]

  $57 + \boxed{68} = 125$


$5 \times \boxed{35} = 175$

[2 marks]

2

Write the correct sign =, > or < in each circle.

[2011]

  $9 \times 3$   $\left( < \right)$   $8 \times 4$   
 $27$   $32$

$9 - 3$   $\left( > \right)$   $8 - 4$   
 $6$   $4$

$9 + 3$   $\left( = \right)$   $8 + 4$   
 $12$   $12$

$9 \div 3$   $\left( < \right)$   $8 \div 4$   
 $1$   $2$

[2 marks]

**3**

Join each of these calculations to the number that is **nearest** to the correct answer.

[2010]

One has been done for you.

*NOTE THAT YOU ONLY NEED TO WORK OUT APPROXIMATE ANSWERS*

$110 + 230$ 340	<del>100</del>
$357 - 149$ 208	<del>200</del>
$62 \times 8$ 496	300
$777 - 679$ 98	400
$801 - 444$ 357	500

*(Note: A black line connects 110 + 230 to 300. Pink lines connect 357 - 149 to 200, 62 x 8 to 400, 777 - 679 to 300, and 801 - 444 to 500.)*

[2 marks]

**4**

Write in the missing numbers.

[2007]

$\boxed{15} + 75 = 90$


$4 \times \boxed{50} = 200$

[2 marks]

**5**

Write in the missing numbers.

[2006]

  $35 \times \boxed{4} = 140$

$633 - \boxed{599} = 34$

[2 marks]

**6**

Write in the missing numbers.

[2004]

  $\boxed{115} + 85 = 200$

$4 \times \boxed{30} = 120$


$120 - 51 = \boxed{69}$

[2 marks]

**7**

Write in the missing numbers.

[2003]

  $55 + \boxed{65} = 120$

$600 \times 4 = \boxed{2400}$

[2 marks]

**8**

Write in the missing numbers.

[2003]



$$37 \times \boxed{3} = 111$$

$$225 - \boxed{75} = 150$$

$$\boxed{84} \div 4 = 21$$

[2 marks]

**9**

Write in the missing numbers.

[2002]



$$22 \times \boxed{30} = 660$$

$$\boxed{184} - 75 = 109$$

[2 marks]

**10**

Write the missing numbers.

[2015]



$$150 - \boxed{63} = 87$$

$$90 \times \boxed{5} = 450$$

[2 marks]

11

[2002]

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

One has been done for you.



$$283 + 159$$

$$29 \times 18$$

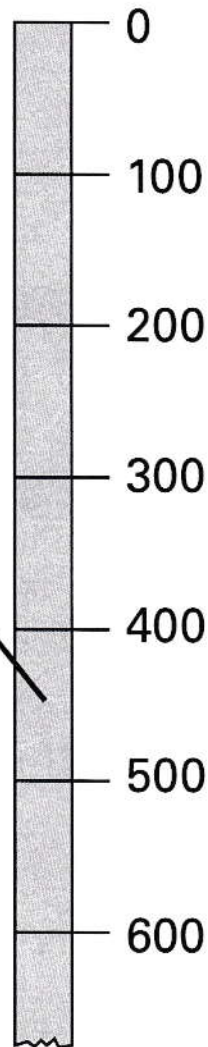
$$522$$

$$720 \div 45$$

$$16$$

$$759 - 484$$

$$272$$



$$\begin{array}{r} 29 \\ \times 18 \\ \hline 232 \quad (x8) \\ 290 \quad (x10) \\ \hline 522 \end{array}$$

$$\begin{array}{r} 016 \\ 45 \overline{) 720} \\ \underline{45} \\ 270 \\ \underline{270} \\ 0 \end{array}$$

$$\begin{array}{r} 6759 \\ -484 \\ \hline 275 \end{array}$$

[2 marks]

12

[2004]

Write in the missing numbers.



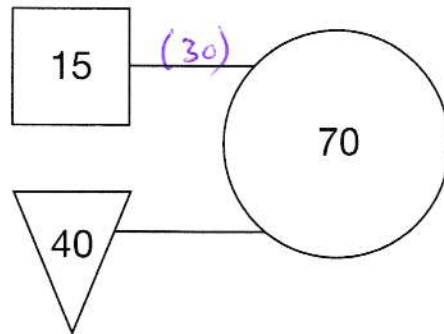
$$\begin{array}{r} 3 \times 4 \\ \hline 12 \end{array} \times \boxed{8} = 96$$

$$\boxed{80} + \begin{array}{r} 62 - 46 \\ \hline +16 \end{array} = 96$$

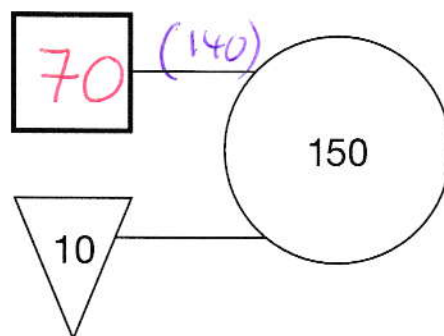
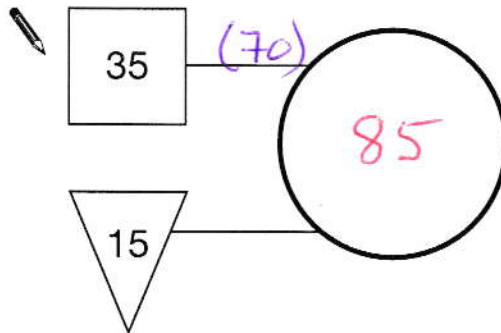
[2 marks]

[2009]

**'double the number in the square  
and add the number in the triangle  
to make the number in the circle'.**



Use the same rule to write in the missing numbers below.

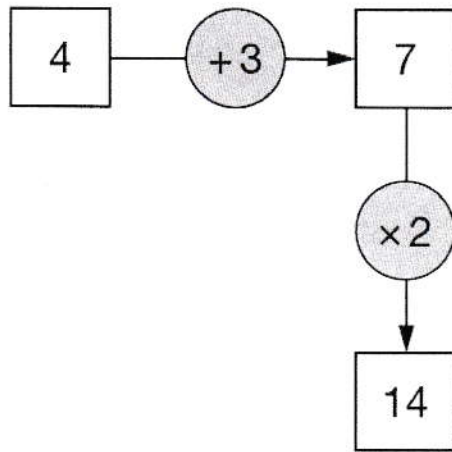


[2 marks]

14

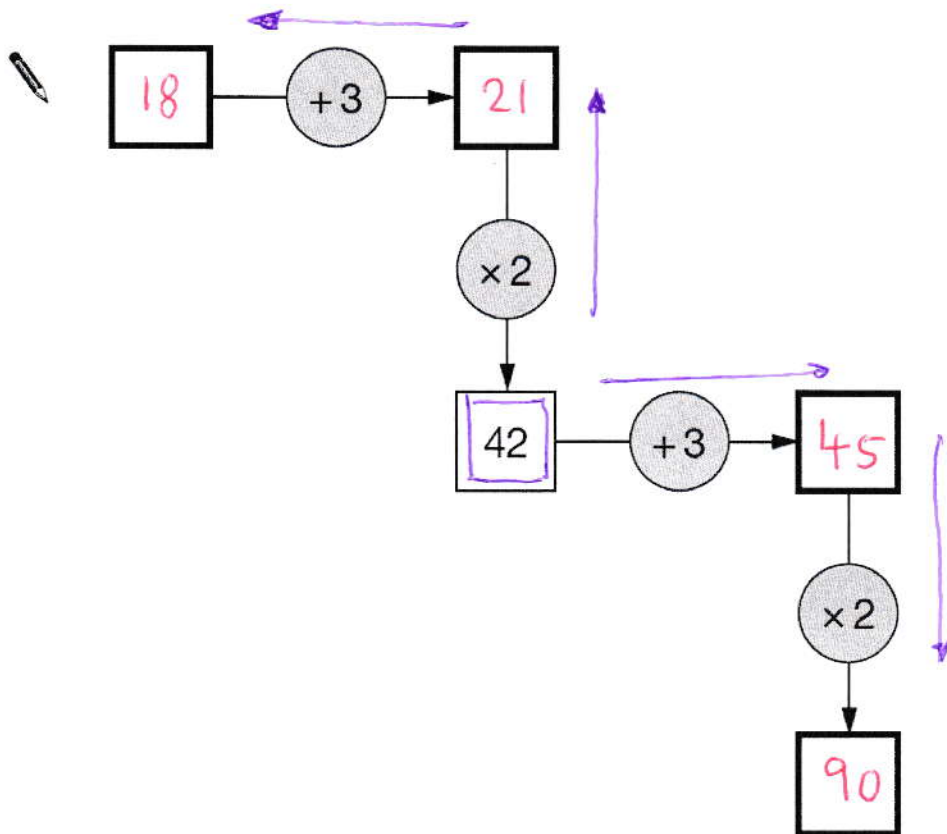
Here is a number machine.

[2012]



Here is another number machine.

Write the four missing numbers.

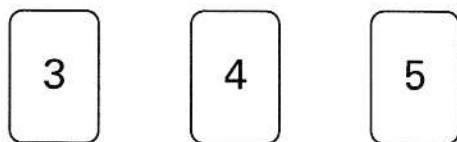


[2 marks]

15

[2004]

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



$$5 \times 4 \text{ (IST)}$$

$$12 \div 3$$

$$9 + 5$$

[1 mark]

16

[2007]

The signs are missing from these number sentences.

Write in the missing signs, + - × or ÷

The first has been done for you.

$$6 \times 5 = 40 - 10$$

$$20 + 8 = 4 \times 7$$

$$21 \div 3 = 15 - 8$$

[2 marks]



17

Draw one line from **each calculation** on the left to the correct box on the right.

[2006]

One has been done for you.

$11 \times 11$   
 121  
 $4 \times 5 \times 6$   
 120  
 $56 + 27 + 17$   
 100  
 $835 - 745$   
 90  
 $4000 \div 50$   
 80

greater than 100  
 less than 100  
 equal to 100

[2 marks]

18

Write one number from each circle to make this calculation correct.

[2011]

$\begin{matrix} 3 & & 4 \\ & 5 & \end{matrix}$ 
 $\begin{matrix} 6 & & 7 \\ & 8 & \end{matrix}$ 
 $\begin{matrix} 30 & & 40 \\ & 50 & \end{matrix}$

$\boxed{5} \times \boxed{6} - \boxed{30} = 0$   
 [or  $5 \times 8 - 40$ ]

[1 mark]


19

Here are five calculations.

[2012]

For each, put a tick (✓) in the box if the answer is **greater than 450**  
Put a cross (✗) if it is not.

One has been done for you.

	greater than 450	
$46 \times 10$	<input checked="" type="checkbox"/>	
 $149 + 137 + 158$ [444]	<input type="checkbox"/>	
$911 - 447$ [464]	<input checked="" type="checkbox"/>	
<div style="border: 1px solid green; padding: 5px; display: inline-block;"> <math>900 \div 2 = 450</math>            So <math>863 \div 2</math>            MUST BE            LESS!         </div> $863 \div 2$	<input type="checkbox"/>	
$16 \times 28\frac{1}{2}$ [456]	<input checked="" type="checkbox"/>	$\begin{array}{r} 28 \\ 16 \\ \hline 168 \\ 280 \\ \hline 448 \\ \frac{1}{2} \text{ of } 16 = 8 \\ \hline 448 + 8 = \boxed{456} \end{array}$

[2 marks]


20

Each missing digit in these calculations is 2, 5 or 7

[2005]

Write in the missing digits.

You may use each digit more than once.

  $\boxed{7} + \boxed{1} \boxed{8} = \boxed{2} \boxed{5}$

$\boxed{2} \boxed{5} \times \boxed{3} = \boxed{7} \boxed{5}$

[2 marks]

21

Write the missing numbers to make these calculations correct.

[2014]

$$200 \times \boxed{2} - 200 = 200$$

$$(100 - \boxed{99}) \times 100 = 100$$

[2 marks]

22

Write the correct sign  $>$ ,  $<$  or  $=$  in each of the following.

[2005]

$$\begin{array}{l} \text{pencil} \\ (10 + 5) - 9 \\ \hline 15 - 9 \\ [6] \end{array} \quad \boxed{<} \quad \begin{array}{l} (10 + 9) - 5 \\ \hline 19 - 5 \\ [14] \end{array}$$

$$\begin{array}{l} 3 \times (4 + 5) \\ \hline 3 \times 9 \\ [27] \end{array} \quad \boxed{>} \quad \begin{array}{l} (3 \times 4) + 5 \\ \hline 12 + 5 \\ [17] \end{array}$$

$$\begin{array}{l} (10 \times 4) \div 2 \\ \hline 40 \div 2 \\ [20] \end{array} \quad \boxed{=} \quad \begin{array}{l} 10 \times (4 \div 2) \\ \hline 10 \times 2 \\ [20] \end{array}$$

[2 marks]

23

Write in what the missing numbers could be.

[2001]

$$\text{pencil} \quad \left( \boxed{10} \div \boxed{1} \right) + 90 = 100$$

[ANY TWO NUMBERS  
WHICH DIVIDE TO GIVE 10]

[1 mark]

24

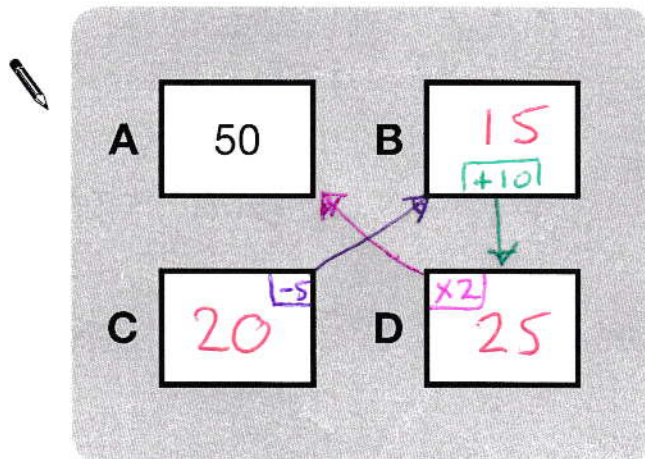
The number in **A** is **twice** the number in **D**.

[2014]

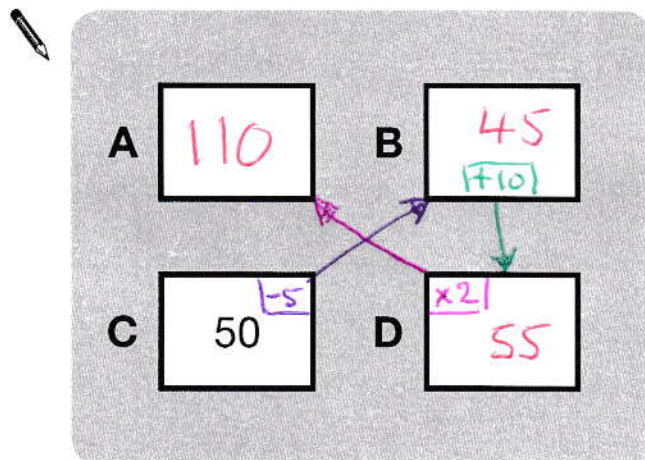
The number in **B** is **5 less** than the number in **C**.

The number in **D** is **10 more** than the number in **B**.

Write the missing numbers in this diagram.



Now use the same rule for this diagram.



[2 marks]