Maths homework this half term is all about fractions - these appear a lot in the SATs papers so please take the time to practice.

Fractions

Name: _____ Date: _____

1) Draw a line to match each calculation to its answer.

$\frac{1}{12} + \frac{7}{12}$	$\frac{3}{10}$
$\frac{5}{9} - \frac{1}{2}$	$\frac{2}{3}$
$\frac{3}{4} \times \frac{2}{5}$	$\frac{1}{12}$
$\frac{1}{3} \div 4$	$\frac{1}{18}$

4 marks

2) Circle the fraction that is equivalent to $\frac{3}{4}$.
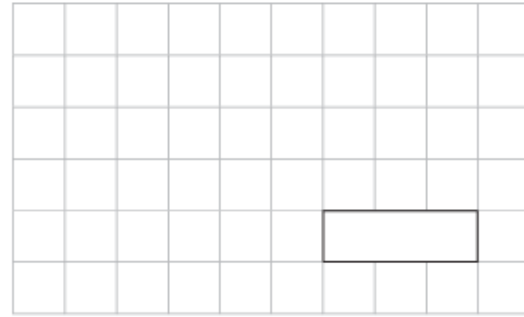
$\frac{8}{16}$ $\frac{75}{100}$ $\frac{12}{20}$ $\frac{30}{44}$ $\frac{16}{20}$

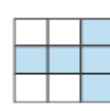**1 mark**

3) The numbers in this sequence always increase by the same amount. Write the missing numbers in the boxes.

☐   2 $2\frac{3}{4}$ $3\frac{1}{2}$ ☐

2 marks

4) $2\frac{2}{3} - \frac{5}{7} =$

1 mark

5) Circle all of the shapes that have $\frac{1}{2}$ shaded.

1 mark

6) Here are five fractions.
Write the fractions in order from smallest to largest.

| $\frac{6}{10}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{5}{8}$ | $\frac{2}{5}$ |

smallest ☐ ☐ ☐ ☐ ☐ largest

1 mark

Name: _____ Date: _____

7) Circle the improper fraction that is equivalent to $3\frac{4}{5}$.

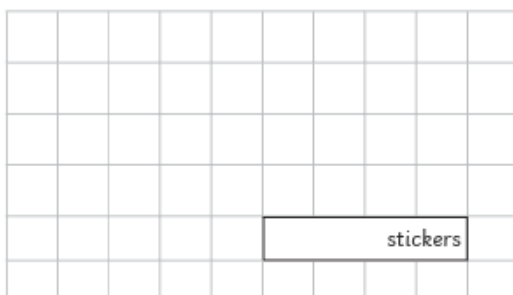$\frac{7}{5}$ $\frac{12}{5}$ $\frac{19}{5}$ $\frac{23}{5}$ $\frac{34}{5}$

1 mark

8) Write one of the symbols below in each box to make the statements correct. [<] [>] [=]

$\frac{3}{10}$ ☐ 30% $\frac{4}{1000}$ ☐ 0.4

1 mark

9) A sticker album has space for 381 stickers.
Magda has collected $\frac{2}{3}$ of the stickers.
How many more stickers does Magda need to collect to complete the album?

stickers

1 mark

10) $\frac{4}{5} \times 300$ is greater than $2\frac{1}{5} \times 100$
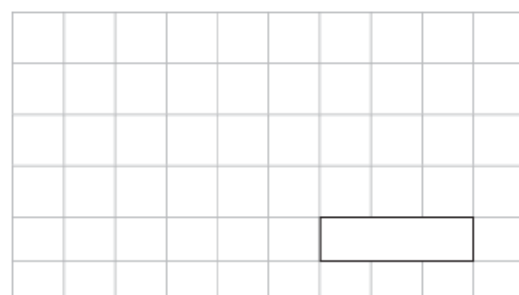
Explain how you know.

_____
_____

1 mark

11) A vegetable patch is planted with carrots, onions and potatoes.

$\frac{1}{6}$ of the vegetable patch is planted with carrots.

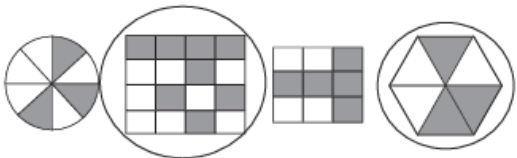$\frac{3}{8}$ of the vegetable patch is planted with onions.

The rest of the vegetable patch is planted with potatoes. What fraction of the vegetable patch is planted with potatoes?

2 marks

Total 16 marks

		Answer
1)	4 marks 1 mark for each correct answer.	$\frac{1}{12} + \frac{7}{12}$ → $\frac{2}{3}$ $\frac{5}{9} - \frac{1}{2}$ → $\frac{1}{18}$ $\frac{3}{4} \times \frac{2}{5}$ → $\frac{3}{10}$ $\frac{1}{3} \div 4$ → $\frac{1}{12}$
2)	1 mark	$\frac{8}{16}$ $\boxed{\frac{75}{100}}$ $\frac{12}{20}$ $\frac{30}{44}$ $\frac{16}{20}$
3)	2 marks 1 mark for each correct answer.	$\boxed{1\frac{1}{4}}$ 2 $2\frac{3}{4}$ $3\frac{1}{2}$ $\boxed{4\frac{1}{4}}$

4)	1 mark	$1\frac{20}{21}$
5)	1 mark	
6)	1 mark	smallest $\frac{2}{5}$ $\frac{1}{2}$ $\frac{6}{10}$ $\frac{5}{8}$ $\frac{3}{4}$ largest
7)	1 mark	$\frac{7}{5}$ $\frac{12}{5}$ $\mathbf{\frac{19}{5}}$ $\frac{23}{5}$ $\frac{34}{5}$
8)	1 mark	$\frac{3}{10}$ $\boxed{=}$ 30% $\frac{4}{1000}$ $\boxed{<}$ 0.4
9)	1 mark	**127 stickers**
10)	1 mark	Explanation should include that $\frac{4}{5} \times 300$ is equal to 240, $2\frac{1}{5} \times 100$ is equal to 220 and that 240 is greater than 220.
11)	2 marks If the answer is incorrect, award 1 mark for evidence of an appropriate method, e.g. $\frac{1}{6} = \frac{4}{24}$ $\frac{3}{8} = \frac{9}{24}$	$\frac{11}{24}$