16 **(a)** Write the ratio 8 : 12 in its simplest form.

.... : .... [1]

(b) On a school trip the ratio of adults to children is 1 : 6
There are 30 children on the trip.

Work out the number of adults.

.... adults [1]

17 Work out the following.
Give your answers as fractions in their simplest form.

(a) $\dfrac{5}{8} \times \dfrac{4}{15}$

.... [2]

(b) $1\dfrac{2}{3} \div 2\dfrac{2}{9}$

.... [2]

18 Solve the simultaneous equations.

$$7x + 2y = 31$$
$$3x + 2y = 19$$

$x =$ ....

$y =$ .... [3]

19 **(a)** Work out

$$4.2 + 5 \times 1.1$$

.... [1]

(b) Put **one pair** of brackets in this calculation to make it correct.

$$18 \div 6 + 3 \times 7 = 14$$ [1]

20 Given that x is a whole number, work out the values of x which satisfy this inequality.

$$4 \ < \ 2x \ \leq \ 8$$

Put a ring around the correct answer.

<div>

3   2, 3   2, 3, 4

3, 4   5, 6, 7, 8   [1]

</div>

21 A spinner contains five sections numbered 1 to 5.
It is **not** a fair spinner.

Josef makes a table to show the probabilities of the spinner landing on each of the numbers 1 to 5.
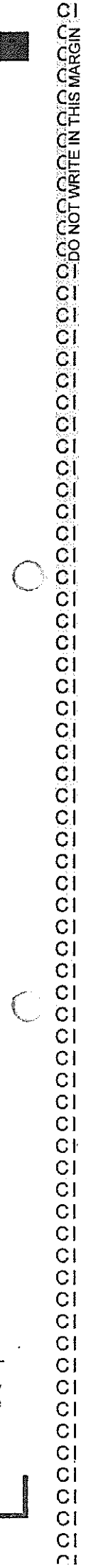
Number	1	2	3	4	5
Probability	0.4		0.2	0.1	

The probability that the spinner lands on 2 is **half** the probability that it lands on 5.

Complete the table to show all of the probabilities. [2]

16

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