## $A Q A^{[ }$

## Direct and Inverse Proportion Topic Test 2 (10 minutes)

$1 \quad y$ is directly proportional to $x$
When $y=8, x=6$

1 (a) Draw a graph that can be used to work out $x$ if you have been given $y$.
[2 marks]


1 (b) Use your graph to work out the value of $x$ when $y=20$

Answer
$2 d$ is inversely proportional to $c$.
When $d=4, c=4$

2 (a) Find an equation connecting $d$ and $c$
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$\qquad$
$\qquad$
$\qquad$

Answer

2 (b) Work out $d$ when $c=8$
$\qquad$

Answer

2 (c) Work out $c$ when $d=3.2$

Answer

3 The time taken in hours $(t)$ for the rooms in a hotel to be cleaned in a morning is inversely proportional to the number of cleaning staff working ( $s$ )

It takes 3 hours to clean the rooms when 10 cleaners are working.

3 (a) Find an equation connecting $t$ and $s$.
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$\qquad$
$\qquad$
$\qquad$

Answer

3 (b) How many room staff are needed to get the rooms cleaned in 2 hours

Answer

END OF QUESTIONS

