Non Calculator

5.1 TEST

A useful table of common fractions with percentage equivalents

1/2	1/3	1/4	<u>1</u> 5	<u>1</u> 10	<u>1</u> 20	<u>1</u> 25	<u>1</u> 50	100
50%	33\frac{1}{3}\%	25%	20%	10%	5%	4%	2%	1%

Question 1

Convert the following common fractions into percentages;

$$\frac{3}{20}$$

$$\frac{3}{25}$$

$$\frac{24}{25}$$

$$\frac{5}{4}$$

$$(\mathbf{x})$$

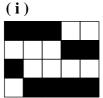
$$\frac{11}{20}$$

$$\frac{21}{20}$$

$$\frac{1}{8}$$

Question 2

What percentage of the grid is shaded?



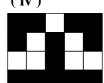
(ii)



(iii)



(iv)



Question 3

Convert the following percentages into common fractions; The fractions should be in as simple a form as possible.

- (i) 30%
- (ii) 75%
- (iii) 8%

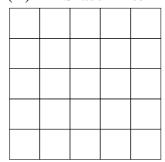
- (**iv**) 60%
- (\mathbf{v}) $66\frac{2}{3}\%$
- (**vi**) 6%

- (**vii**) 16%
- (**viii**) 96%
- (ix) 99%

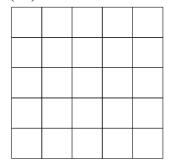
- (\mathbf{x}) 133 $\frac{1}{3}$ %
 - (xi) 225%
- (**xii**) 44%

Question 4

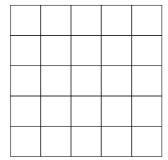
(i) Shade in 4%



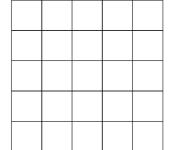
(**ii**) Shade in 20%



(iii) Shade in 24%



(**iv**) Shade in 92%



Question 5

Increase £80 by 10%

Question 6

Increase 120 cm by 25%

Question 7

Increase 40 kg by 15%

Question 8

Increase 200° by 17%

Question 9

Decrease 70 m.s $^{\text{-}1}$ by 30%

Question 10

Decrease \$50 by 1%

Question 11

Decrease 12 kg by 90%

Question 12

Decrease 45 cm by $33\frac{1}{3}\%$

Question 13

Question 14

What percentage of 50 kg is 40 kg?

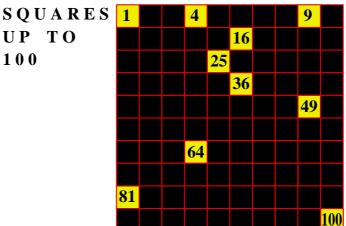
What percentage of £21 is £14?

Question 15

Mavis gets only one question wrong in a twenty-five question test. What percentage of questions has she got correct?

Question 16

Here is a grid of square numbers.



What percentage of the first 100 integers are square?

Question 17

In a hospital, 40 toilets are tested for a superbug.

The tests show that 14 of the toilets were contaminated by the superbug. What percentage of the toilets tested were contaminated by the superbug?

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Rachael eats 49% of a lemon drizzle cake, and Michael eats 37% of it. How much cake remains for me to eat?

Question 19

A second hand car salesman charges 4% commission on every car he sells. How much commission will he earn on a car that he sells for £13 000?

Question 20

- (i) What is 4% of £250?
- (ii) What is 16% of £50?

- (iii) What is 32% of £75
- (iv) What is 96% of £125?

- (v) Increase £250 by 54%
- (**vi**) Decrease £200 by 92%

Question (i)	on 21 What is 20% of	360° ?	(ii)	What is 30% of 360°?
(iii)	What is 25% of	360° ?		
In a sur	ervey, • • • •	30% of the peop	ole asked ole asked	said they were Christian said they were Athiest said they were Roman Catholic were Jedi.
(iv)	In the space belo	ow draw an accura	ate Pie Cl	hart to represent this information.
(v)	What percentage	e of people said th	ney were .	Jedi ?

How many degrees is this on the Pie Chart?

(vi)