

Lesson 2

Percentages : Year 9

Non Calculator

2.1 Percentage Increase

To this table of percentages add the common fraction equivalents.

50%	$33\frac{1}{3}\%$	25%	20%	10%	5%	4%	2%	1%

2.2 Examples

Example 1

Increase £50 by 20%

Example 2

Increase £25 by 40%

Example 3

Increase £40 by 30%

Example 4

Increase £75 by 12%

2.3 Exercise

Question 1

Increase £90 by 10%

Question 2

Increase £80 by 25%

Question 3

Increase 50 kg by 60%

Question 4

Increase 20 cm by 75%

Question 5

Increase £50 by 30%

Question 6

Increase £6 by 50%

Question 7

Increase £40 by 5%

Question 8

Increase £40 by 15%

Question 9

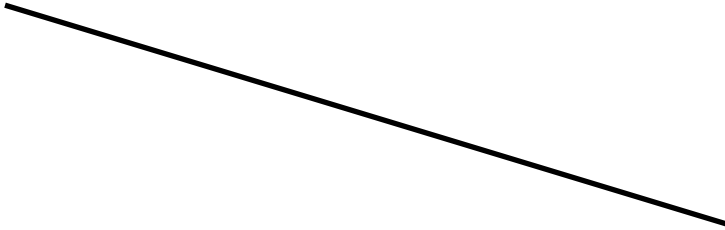
Increase \$30 by 70%

Question 10

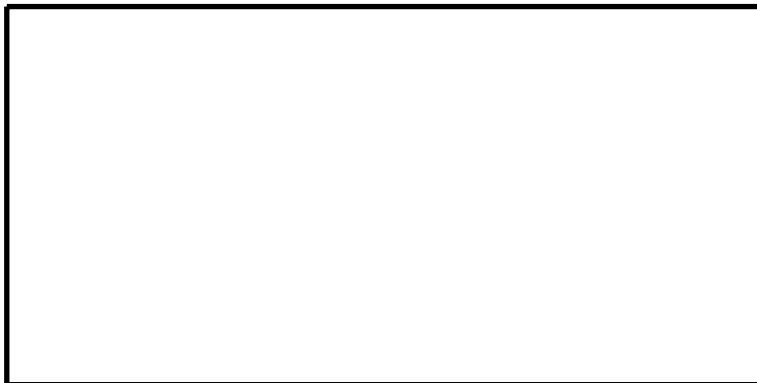
Increase \$75 by $66\frac{2}{3}\%$

Question 11

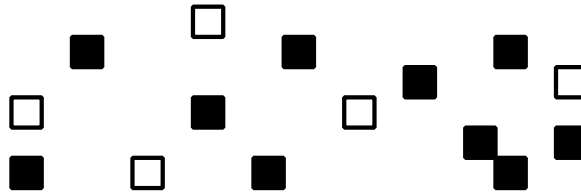
Make this line 50% longer.

**Question 12**

Make this rectangle 20% wider and 40% higher.



Question 13



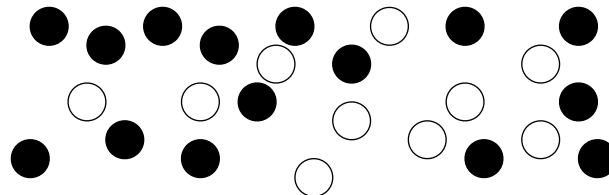
- (i) What percentage of the squares are shaded black ?
- (ii) What percentage of the squares are shaded white ?

Question 14



- (i) What percentage of the stars are shaded black ?
- (ii) What percentage of the stars are shaded white ?

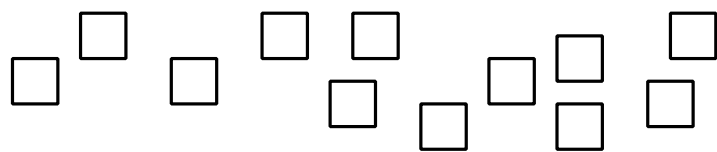
Question 15



- (i) What percentage of the circles are shaded black ?
- (ii) What percentage of the circles are shaded white ?

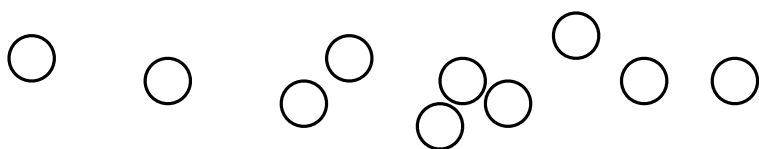
Question 16

Increase the number of squares by 25%



Question 17

Increase the number of circles by 40%



Question 18

(i) Complete this table of 'eighths' percentages.

$\frac{1}{8}$	$\frac{2}{8}$	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{5}{8}$	$\frac{6}{8}$	$\frac{7}{8}$	$\frac{8}{8}$	$\frac{9}{8}$
			50%					

(ii) Increase £16 by 37½%

(iii) Increase £64 by 62½%