

BLOCK 2 TEST

TIME: 45 minutes

The total mark for this paper is 50

NAME

TOTAL MARKS

PERCENTAGE

You require a ruler and protractor.

Calculators may not be used.



1. A school has 1200 pupils.
575 of these pupils are girls.

$\frac{2}{5}$ of the girls like sport. $\frac{3}{5}$ of the boys like sport.

Work out the total number of pupils in the school who like sport.

.....
(Total 3 marks)

2. Simplify $e + f + e + f + e$

.....
(Total 1 mark)

3. Simplify $5x + 3y - 2x + y$

.....
(Total 2 marks)

4. (a) 12^2

(b) 3^3

(c) $\sqrt{49}$

(d) $\sqrt{81}$

(Total 4 marks)

5. Here are the test scores of 12 students.

19	18	20	25	37	33
21	17	29	20	42	18

(a) Show this information in an ordered stem and leaf diagram.

.....
(Total 4 marks)

(b) Work out the median.

.....
(Total 2 marks)

(c) Work out the range of these scores.

.....
(Total 1 mark)

6. 258 divided by 12
Give your answer to 1 d.p.

.....
(Total 2 marks)

7. Here is a list of numbers.

4 7 10 16 18 20 21 32

From the numbers in the list write down a number that is

- (i) an odd number
- (ii) a multiple of 5
- (iii) a prime number
- (iv) a factor of 42

(Total 4 marks)

8. Change these improper fractions to mixed numbers.

- (i) $\frac{30}{4}$
- (ii) $\frac{12}{9}$

(Total 2 marks)

9. Change these mixed numbers to improper fractions.

- (iii) $2\frac{1}{5}$
- (iv) $8\frac{3}{8}$

(Total 2 marks)

10. Put these fractions in order from smallest to largest.

$$\frac{7}{20} \quad \frac{1}{3} \quad \frac{3}{8} \quad \frac{2}{5}$$

.....
(Total 2 marks)

11. Round the following numbers to 2 significant figures

(i) 7650

(ii) 11230

(Total 2 marks)

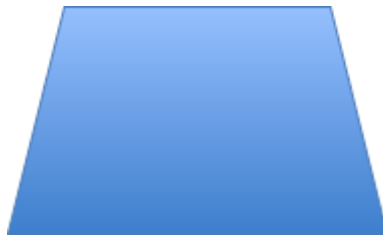
12. Round the following numbers to 2 decimal places

(i) 2.567

(ii) 0.185

(Total 2 marks)

13.



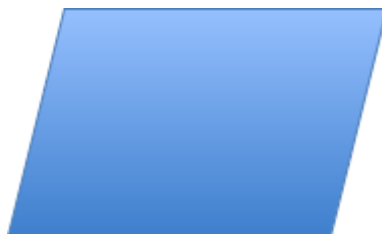
Work out the area and perimeter of the trapezium.
You must measure the lines.

Area:

Perimeter:

(Total 2 marks)

14.



Work out the area and perimeter of the parallelogram.
You must measure the lines.

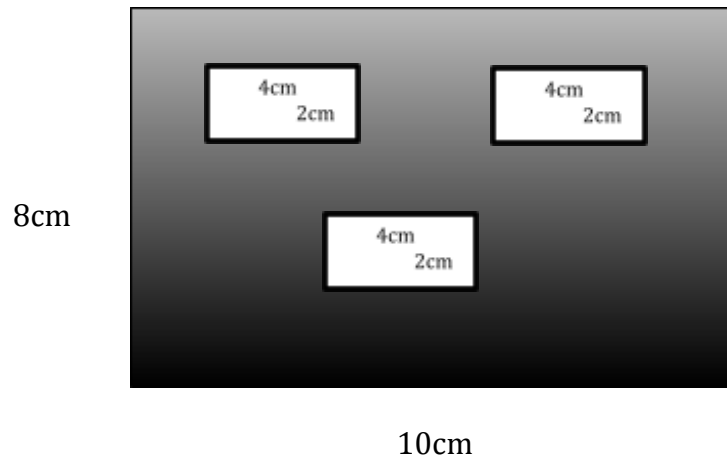
Area:

Perimeter:

(Total 2 marks)

15.

Diagram NOT accurately drawn.



Work out the area of the shaded region in the diagram.

.....
(Total 3 marks)

16. Estimate the answer to the following sum.

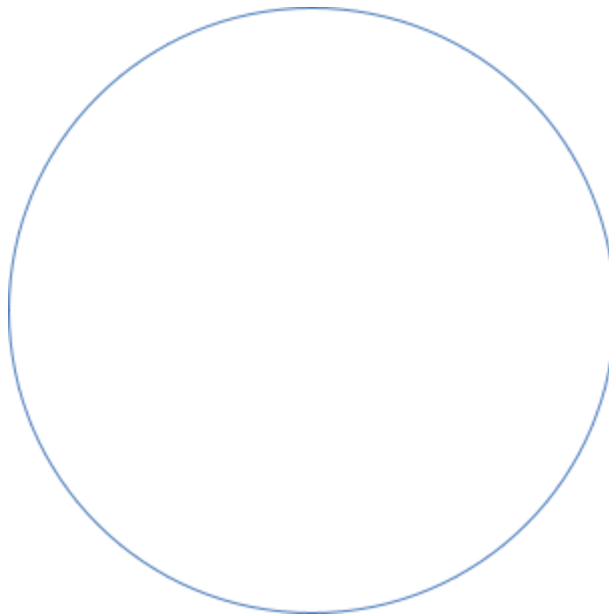
$$\frac{523 \times 21}{2.19}$$

.....
(Total 2 marks)

17. This table gives information about the colours of cars in a car park.

CARS	FREQUENCY	
Red	10	
Black	23	
Blue	39	

Draw an accurate pie chart to show this information.



.....
(Total 4 marks)

18. (a) Write 0.23 as a percentage
- (b) Write 12.5% as a decimal

(Total 2 marks)

19. Write 42% as a fraction.
Give your answer in its simplest form.

.....
(Total 2 marks)