

1. Look at the following list of numbers.

20, 21, 22, 23, 24, 25, 26, 27, 28.

Using only the numbers in the list, write down

(a) a cube number,



[1]

(b) a prime number.

[1]

2. Find the value of

(a)  $3^4 \times 2^3$ ,

[2]

(b)  $6.7 - 3.84$ .

[1]

1. Find the value of

(a) the cube of 4,



[1]

(b)  $0.3 \times 0.2$ ,

[1]

(c)  $3^2 \times 2^4$ ,

[2]

(d)  $8.7 - 3.24$ .

[1]

1. (a) Use the fact that  $86 \times 73 = 6278$  to write down the answers to the following.

(i)  $8 \cdot 6 \times 73 =$

..... [1]

(ii)  $860 \times 7 \cdot 3 =$

..... [1]

(iii)  $6278 \div 73 =$

..... [1]

(b) Find the value of  $3^3 \times 2^3$ .

..... [2]

2. Showing all your working, find which of the quantities  $\frac{9}{20}$ , 40% and 0.42 is (i) the smallest, (ii) the largest.

.....

(i) Smallest = ..... (ii) Largest = .....

[3]

3. Showing all your working, find which of the quantities 60%, 0.7 and  $\frac{13}{20}$  is (i) the smallest, (ii) the largest.



(i) Smallest = ..... (ii) Largest = .....

[3]

6. Showing clearly how you decide, find which of the following fractions is closest to  $\frac{1}{3}$ .

$$\frac{3}{8},$$

$$\frac{1}{4},$$

and

$$\frac{1}{6}$$



1. Use the fact that  $28 \times 49 = 1372$  to write down the answers to the following.

(a)  $2.8 \times 4.9 =$

[1]

(b)  $14 \times 490 =$

[1]

(c)  $137.2 \div 49 =$

[1]

2. Find the value of

(a)  $5^3 \times 2^3,$

[2]

(b)  $28.6 - 12.73.$

[1]

3. Showing all your working, find which of the quantities  $0.8$ ,  $\frac{17}{20}$  and  $84\%$  is (i) the smallest, (ii) the largest.

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(i) Smallest = ..... (ii) Largest = .....

[3]

4. Clearly showing how you obtained your answer, ESTIMATE the value of:

$$\frac{809 \times 287}{42}$$

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[2]



5. Clearly showing how you obtained your answer, ESTIMATE the value of

$$\frac{52 \times 95}{493}.$$





8. Clearly showing how you obtained your answer, ESTIMATE the value of:

$$\frac{47 \times 307}{24}$$



2. (a) Write down 789.6 correct to 3 significant figures.

[1]

(b) Write down 0.05726 correct to 2 significant figures.

[1]

(c) Find the value of  $3^4 \times 2^2 \times 5^2$ .



[2]

(d) Find the value of  $\frac{7}{10} - \frac{2}{5}$ .

[2]

4. Write down the following numbers correct to 2 significant figures.

(a) 0.063732

.....  
[1]

(b) 7934



.....  
[1]

4. (a) Write down 74.8612 correct to 3 significant figures.

.....

[1]

- (b) Write down 6.0432 correct to 2 significant figures.

.....

[1]