1. Look at the following list of numbers.

$$20, \quad 21, \quad 22, \quad 23, \quad 24, \quad 25, \quad 26, \quad 27, \quad 28.$$

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) 0.3×0.2,

   ....

   ....

   ....

   [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 $\frac{1}{3}$.

$$\frac{3}{8}, \qquad \frac{1}{4}, \qquad \text{and} \qquad \frac{1}{6}$$

....

....

....

....

....

....

....

....

[2]

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

(a) $2 \cdot 8 \times 4 \cdot 9 =$

....

[1]

(b) $14 \times 490 =$

....

[1]

(c) $137 \cdot 2 \div 49 =$

....

[1]

2. Find the value of

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

....

....

....

[2]

(b) $28 \cdot 6 - 12 \cdot 73$.

....

....

....

[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.

....

....

....

....

....

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

[3]

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

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

....

....

....

[2]

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

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

....

....

....

[2]

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

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

....

....

....

....

....

....

....

....

[2]

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 $\dfrac{7}{10} - \dfrac{2}{5}$.

....

....

....

....

....

....
[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]