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1. (a) Write the following numbers in order of size.
Start with the smallest number.

-6 6 -5 0 12

For the smallest number, we are looking for the negative that is furthest away from 0.

$$6 < 12$$

-6, -5, 0, 6, 12

(1)

- (b) Write the following numbers in order of size.
Start with the smallest number.

0.078 0.78 0.87 0.708

For these two, we need to compare the values in the second decimal place

$$0 < 8 \text{ so } 0.708 < 0.78$$

The smallest value has the lowest number in its first decimal place.

0.078, 0.708, 0.78, 0.87

(1)

(Total for Question is 2 marks)

$$\frac{20 \div 10}{100 \div 10} = \frac{2 \div 2}{10 \div 2} = \frac{1}{5}$$

$$\frac{1}{5}$$

2. Write the following numbers in order of size.
Start with the smallest number.

$0.\overset{4}{4}$ $0.\overset{0}{0}2$ $0.\overset{3}{3}7$ $0.\overset{1}{1}52$ $0.\overset{2}{2}$

$0.02, 0.152, 0.2, 0.37, 0.4$ ✓

(Total for Question is 1 mark)

3. Write these numbers in order of size.
Start with the smallest number.

$$\cancel{8} \quad \cancel{4} \quad \cancel{1} \quad \cancel{1} \quad \cancel{2}$$

$$-7, -4, -2, 1, 8$$

$$-7, -4, -2, 1, 8 \quad \textcircled{1}$$

$$8375 \quad \text{less than 5 so we round down}$$

$$8000 \quad \textcircled{1}$$

$$0.23 \xrightarrow{\times 100} \frac{23}{100} = 23\% \quad \textcircled{1}$$

$$\sqrt{\quad}$$

$$\sqrt{17.64} = \frac{21}{5} = 4.2$$

use calculator

$$4.2 \quad \textcircled{1}$$

4. Write the following numbers in order of size.
Start with the smallest number.

0.32 0.4 0.35 0.309

0.309, 0.32, 0.35, 0.4 ✓

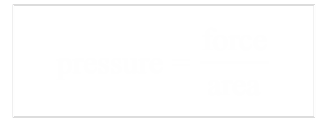
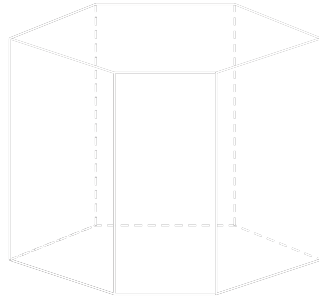
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5. Write these numbers in order of size.
Start with the smallest number.

Standard form: $A \times 10^n$ ($1 \leq A < 10$)

6.72×10^5

67.2×10^{-4}

672×10^4

0.000672

(3)

$6.72 \times 10 \times 10^{-4}$

$6.72 \times 100 \times 10^4$

6.72×10^{-4}

6.72×10^{-3}

6.72×10^6

(1)

(2)

(4)

0.000672

67.2×10^{-4}

6.72×10^5

672×10^4

(Total for Question is 2 marks)

6. Write the following numbers in order of size.

Start with the smallest number.

~~1~~ ~~-4~~ ~~0~~ ~~7~~ ~~-6~~ ~~-3~~ ~~2~~

.....
-6, -4, -3, 0, 1, 2, 7 ✓

(Total for Question is 1 mark)

7. Write the following numbers in order of size.
Start with the smallest number.

1.02 0.12 1.20 0.21

0.12, 0.21, 1.02, 1.20 