Year 6 Autumn 2 Maths Activity Mat 4

Section 1

The temperature inside is $19^{o}C$, but outside it is $-5^{o}C$. What is the difference in temperature?

Section 2

Calculate in your head:

31 + 46 =

49 + 16 =

86 – 42 =

53 – 26 =

Section 3

Calculate

3 × (7 + 1) =

4 + 2 × 7 =

(12 - 3) ÷ 3 =

Section 4

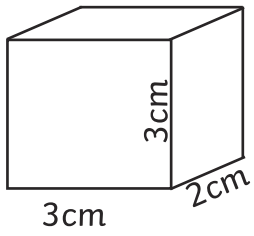
Write a fraction and a decimal equivalent to $\frac{1}{2}$.

Section 5

23 872 spectators attend a cricket match. Write the numbers of spectators rounded to the nearest 10, nearest 100 and nearest 1000.

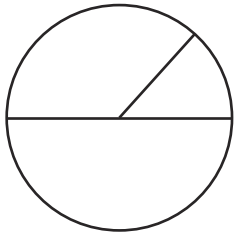
Section 6

Calculate the volume of this cuboid.



Section 7

Label the diameter of this circle.



Section 8

Find the mean of these numbers:

5, 9, 8, 2, 6

Year 6 Autumn 2 Maths Activity Mat 4 **Answers**

Section 1

The temperature inside is 19°C, but outside it is -5°C. What is the difference in temperature?

24°C difference

Section 2

Calculate in your head:

31 + 46 = **77**

49 + 16 = **65**

86 - 42 = **44**

53 - 26 = **27**

Section 3

Calculate

3 × (7 + 1) = **24**

4 + 2 × 7 = **18**

(12 - 3) ÷ 3 = **3**

Section 4

Write a fraction and a decimal equivalent to $\frac{1}{2}$.

0.5, $\frac{4}{8}$, $\frac{3}{6}$ (other fractions possible)

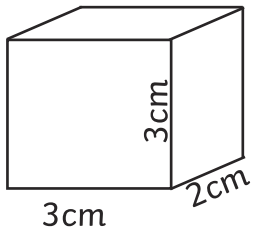
Section 5

23 872 spectators attend a cricket match. Write the numbers of spectators rounded to the nearest 10, nearest 100 and nearest 1000.

23 870, 23 900, 24 000

Section 6

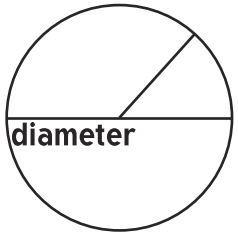
Calculate the volume of this cuboid.



3 cm × 3 cm × 2 cm = 18 cm³

Section 7

Label the radius and the diameter of this circle.



Section 8

Find the mean of these numbers:

23, 15, 21, 28, 18

6

Year 6 Autumn 2 Maths Activity Mat 4

Section 1

The difference between the temperature inside and outside is 24°C. The temperature outside is below freezing, but the temperature inside is above 20°C. What could be the temperature outside?

Section 2

Calculate in your head:

213 + 405 =

682 + 118 =

349 – 216 =

721 – 451 =

Section 3

Calculate

9 × (4 + 7) =

13 + 6 × 8 =

(45 - 17) ÷ 7 =

Section 4

Write a fraction and a decimal equivalent to $\frac{1}{8}$.

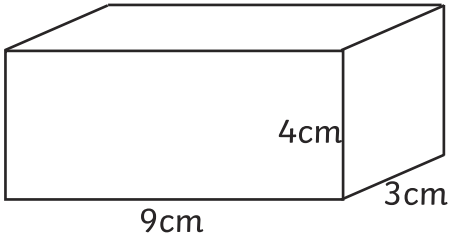
Section 5

The population of Sheffield is 563 749. Round the population to an appropriate figure.

The population of Sheffield is _____ , rounded to the nearest _____ .

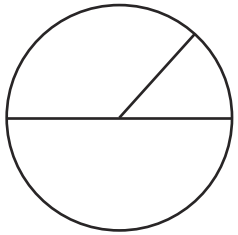
Section 6

Calculate the volume of this cuboid.



Section 7

Label the radius and the diameter of this circle.



Section 8

Find the mean of these numbers:

23, 15, 21, 28, 18

Year 6 Autumn 2 Maths Activity Mat 4 **Answers**

Section 1

The difference between the temperature inside and outside is 24°C. The temperature outside is below freezing, but the temperature inside is above 20°C. What could be the temperature outside?

-3°C, -2°C, or -1°C

Section 2

Calculate in your head:

213 + 405 = **618**

682 + 118 = **800**

349 - 216 = **133**

721 - 451 = **270**

Section 3

Calculate

9 × (4 + 7) = **99**

13 + 6 × 8 = **61**

(45 - 17) ÷ 7 = **4**

Section 4

Write a fraction and a decimal equivalent to $\frac{1}{8}$.

0.125, $\frac{2}{16}$, $\frac{3}{24}$ (other fractions possible)

Section 5

The population of Sheffield is 563 749. Round the population to an appropriate figure.

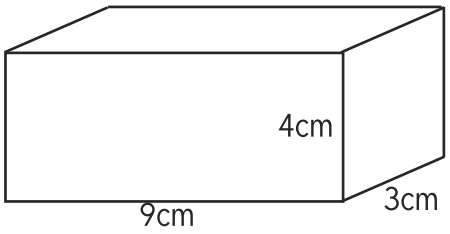
The population of Sheffield is

_____ , rounded to the nearest _____.

Various answers possible.
e.g. 564 000 (1000),
563 700 (100)

Section 6

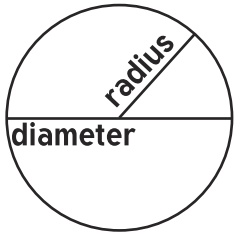
Calculate the volume of this cuboid.



9 cm × 4 cm × 3 cm = 108 cm³

Section 7

Label the radius and the diameter of this circle.



Section 8

Find the mean of these numbers:

23, 15, 21, 28, 18

21

Year 6 Autumn 2 Maths Activity Mat 4

Section 1

Sometimes the temperature at the South Pole is the same number in Celsius(C) and Fahrenheit(F). To convert C to F, use the following formula: $F = C \times \frac{9}{5} + 32$. What is the temperature when the number in C is the same as in F? (Hint – try putting negative numbers in the formula.)

Section 2

Calculate in your head:

187 + 401 + 260 =

312 + 562 + 43 =

834 – 458 =

349 – (56 + 102) =

Section 3

Calculate

(17 - 9) × (2 + 7) =

16 x 4 + 5 - 8 =

(61 + 16) ÷ (6 + 5)=

Section 4

Calculate the decimal equivalent of $\frac{1}{9}$.

Section 5

Some children hold a bake sale to raise money for a local charity. They start with a float of £7.65. The ingredients cost £29.86. At the end of the sale, they count the money and have £79.54. How much money have they raised to the nearest 10p?

Section 6

Write the dimensions of 3 cuboids with a volume of 24 cm^3, where the edges are all whole centimetres.

Section 7

Draw 2 interlocking circles of the same size, where the distance between the intersections is the same as the radius of the circles.

Section 8

The average of 5 people's scores in a game is calculated as 10. The game is played again and four players gain the same score. One player doubles their score and the average is now 11. What was the player's new score?

Year 6 Autumn 2 Maths Activity Mat 4 **Answers**

Section 1

Sometimes the temperature at the South Pole is the same number in Celsius(C) and Fahrenheit(F). To convert C to F, use the following formula: $F = C \times \frac{9}{5} + 32$. What is the temperature when the number in C is the same as in F? (Hint - try putting negative numbers in the formula.)

-40

Section 2

Calculate in your head:

187 + 401 + 260 = **848**

312 + 562 + 43 = **917**

834 - 458 = **376**

349 - (56 + 102) = **191**

Section 3

Calculate

(17 - 9) × (2 + 7) = **72**

16 x 4 + 5 - 8 = **61**

(61 + 16) ÷ (6 + 5)= **7**

Section 4

Calculate the decimal equivalent of $\frac{1}{9}$.

0.111

Section 5

Some children hold a bake sale to raise money for a local charity. They start with a float of £7.65. The ingredients cost £29.86. At the end of the sale, they count the money and have £79.54. How much money have they raised to the nearest 10p?

£42

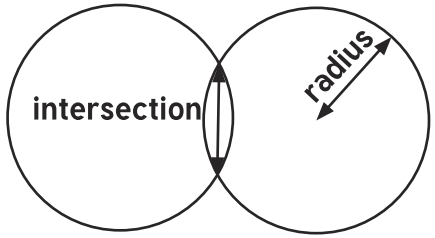
Section 6

Write the dimensions of 3 cuboids with a volume of 24 cm^3, where the edges are all whole centimetres.

Any 3 of the following: 24 ×1 ×1, 12 × 2 × 1, 8 × 3 × 1, 6 × 4 × 1, 6 × 2 × 2, 4 × 3 × 2

Section 7

Draw 2 interlocking circles of the same size, where the distance between the intersections is the same as the radius of the circles.



Section 8

The average of 5 people's scores in a game is calculated as 10. The game is played again and four players gain the same score. One player doubles their score and the average is now 11. What was the player's new score?

10