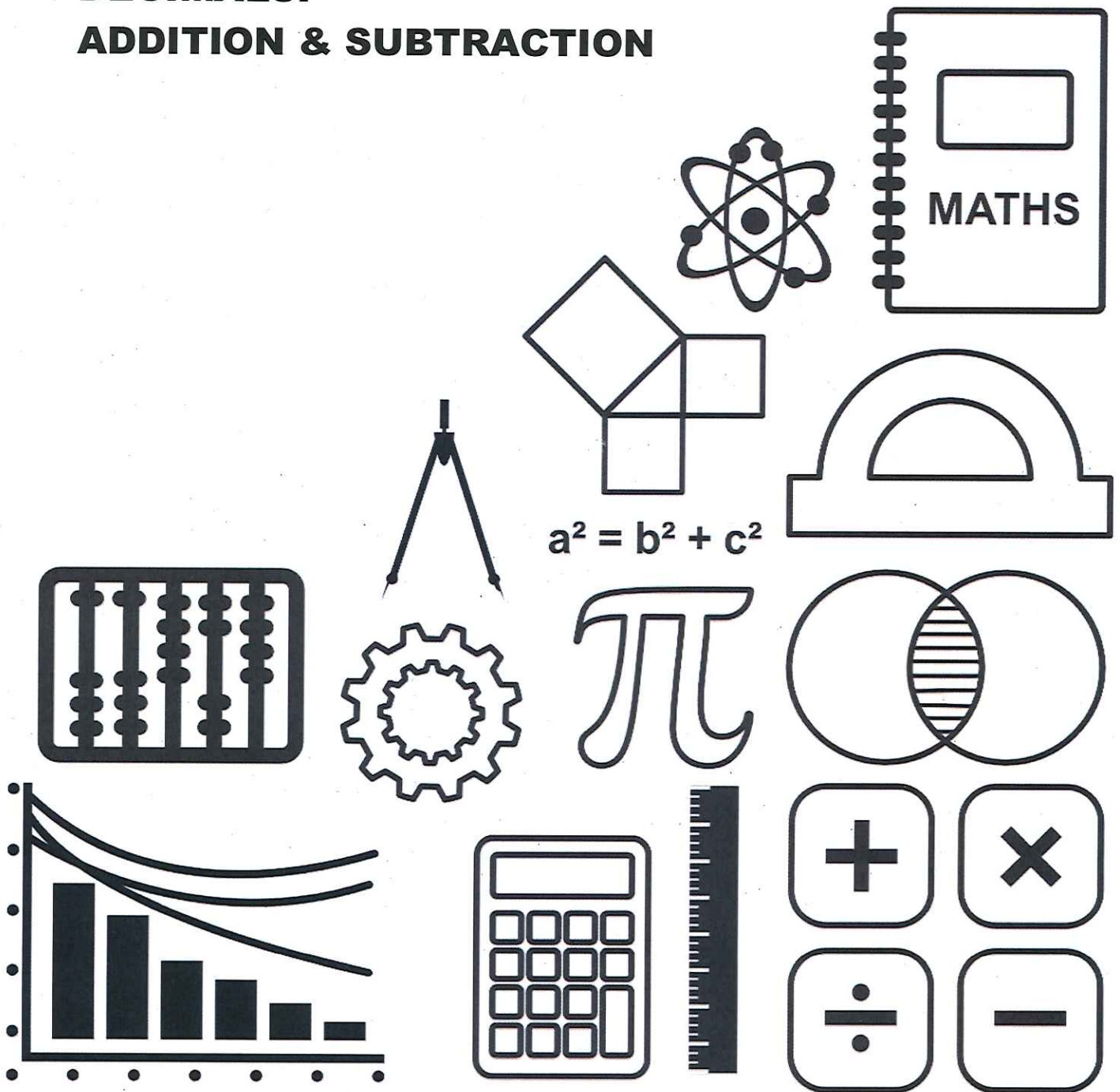


MATHSDIY

GCSE TOPIC BOOKLET
DECIMALS:
ADDITION & SUBTRACTION

SOLUTIONS



1. Find the value of $8.39 - 5.67$

$$\begin{array}{r} 7 \\ 8.39 \\ - 5.67 \\ \hline 2.72 \end{array}$$

.....

2. Find the value of $56.8 - 32.64$

$$\begin{array}{r} 71 \\ 56.80 \\ - 32.64 \\ \hline 24.16 \end{array}$$

.....

3. Find the value of $14.4 + 12.82$

$$\begin{array}{r} 14.40 \\ + 12.82 \\ \hline 27.22 \end{array}$$

.....

4. Find the value of $64.3 + 12.94$

$$\begin{array}{r} 64.30 \\ + 12.94 \\ \hline 77.24 \end{array}$$

.....

5. Find the value of $12.6 - 3.58$

$$\begin{array}{r} 51 \\ 12.60 \\ - 3.58 \\ \hline 9.02 \end{array}$$

.....

6. Find the value of $23.1 - 15.48$

$$\begin{array}{r} 23.10 \\ - 15.48 \\ \hline 7.62 \end{array}$$

.....

(1)

(1)

(1)

(1)

(1)

(1)

7. Find the value of $4.5 + 2.38 + 3.2$

$$\begin{array}{r} 4.50 \\ + 2.38 \\ + 3.20 \\ \hline 10.08 \end{array}$$

.....

(1)

8. Find the value of $26.08 + 15.97$

$$\begin{array}{r} 26.08 \\ + 15.97 \\ \hline 42.05 \end{array}$$

.....

(1)

9. Tom carries two boxes. The total weight is 4.2kg. One box weighs 1.8kg. How much does the other box weigh?

$$\begin{array}{r} 4.2 \\ - 1.8 \\ \hline 2.4 \end{array}$$

2.4 kg

.....

(1)

10. What is the total weight of 1.37 kg of pears and 1.75 kg of apples?

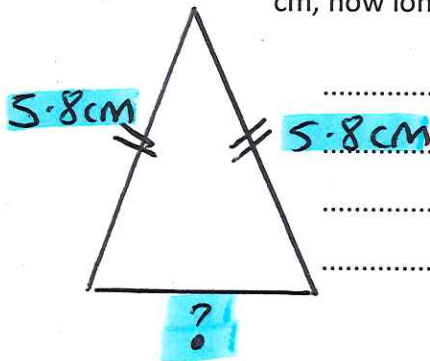
$$\begin{array}{r} 1.37 \\ + 1.75 \\ \hline 3.12 \end{array}$$

3.12 kg

.....

(1)

11. The perimeter of an isosceles triangle is 18 cm. If the two equal sides measure 5.8 cm, how long is the third side?



$$\begin{array}{r} 5.8 \\ + 5.8 \\ \hline 11.6 \end{array}$$

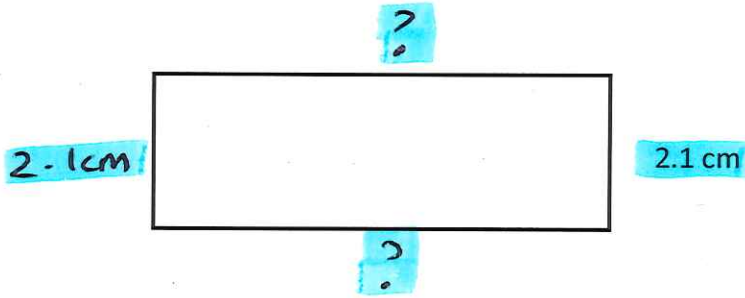
$$\begin{array}{r} 18.0 \\ - 11.6 \\ \hline 6.4 \end{array}$$

6.4 cm

.....

(3)

12.



In this rectangle the width is 2.1 cm. If the perimeter is 8cm, how long is the rectangle?

$$\begin{array}{r}
 2.1 \\
 + 2.1 \\
 \hline
 4.2 \text{ cm}
 \end{array}$$

$$\begin{array}{r}
 8.0 \\
 - 4.2 \\
 \hline
 3.8 \text{ cm}
 \end{array}$$

$$\begin{array}{r}
 1.9 \\
 2 \overline{) 3.8} \\
 \underline{2 0} \\
 1.8 \\
 \underline{1.8} \\
 0
 \end{array}$$

1.9 cm

(3)

13. a) The Murphy family take four cases on holiday. At the airport the cases are weighed. The cases weigh 18.25 kg, 21.47 kg, 19.45 kg and 20.57 kg. How much do the cases weigh in total?

$$\begin{array}{r}
 18.25 \\
 + 21.47 \\
 + 19.45 \\
 + 20.57 \\
 \hline
 79.74
 \end{array}$$

79.74 kg

(3)

b) For the return flight, the Murphy family have a total of 82.35 kg of luggage. Two cases weigh exactly 19.51 kg and the third weighs 22.43 kg. How much does the fourth case weigh?

$$\begin{array}{r}
 19.51 \\
 + 19.51 \\
 + 22.43 \\
 \hline
 61.45
 \end{array}$$

$$\begin{array}{r}
 82.35 \\
 - 61.45 \\
 \hline
 20.90
 \end{array}$$

= 20.9 kg

(3)

16. A plank of wood is exactly 3m long. Joe cuts a 1.3 m piece and an $\overset{\rightarrow}{0.8\text{m}}$ piece from the plank. What is the length of the remaining piece?

$$\begin{array}{r} 3.0 \\ - 1.3 \\ \hline 1.7 \\ - 0.8 \\ \hline 0.9 \end{array}$$

$$\begin{array}{r} 1.3 \\ + 0.8 \\ \hline 2.1 \\ - 1 \\ \hline 1.1 \end{array}$$

0.9m remains

(3)

17. The current men's world record for running 100 m is 9.58 seconds, set by Jamaica's **Usain Bolt** in 2009, while the women's world record of 10.49 seconds set by American Florence Griffith-Joyner in 1988. How much quicker is the men's record than the women's record?

$$\begin{array}{r} 10.49 \\ - 9.58 \\ \hline 0.91 \end{array}$$

0.91 seconds

(2)

18. The **fastest goal** in **Premier League** history was scored in 7.69 seconds by Shane Long for Southampton against Watford in the 2018-19 season. Uruguayan striker Ricardo Olivera scored the fastest goal ever after 2.8 seconds for his side Rio Negro against Soriano in 1998. How much quicker was Ricardo's goal?

$$\begin{array}{r} 7.69 \\ - 2.80 \\ \hline 4.89 \end{array}$$

4.89 seconds

(2)