



THE
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SCHOOL

8B1-B2

Maths Work Booklet w/c 13th July 2020

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Instructions

As this is your last Maths project of the academic year; each day you have ten questions to answer that cover all the topics you have learnt throughout the year!! Well done for all your hard work in Maths!!



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Monday



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Revision slide

Example

Round the following to 1 significant figure (1sf).

↓ ↓
17674

20000(1sf)

1. Find the first significant figure
2. Draw a line to the right of it.
3. Look at the next number.
If it's 5 or more we round up.
If it's less than 5 we leave same.
4. Everything else goes to zero.



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Monday Questions



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1 **Work out** $£23.49 + £7.82$

2 **Evaluate** 2^6

3 **Solve** $5x - 1 = 34$

4 **Round** 56354 correct to 1 significant figure

5 **Work out** $-7 + 9$

6 Find the **nth term** 12, 14, 16, 18

7 **Simplify** the ratio 15 : 27

8 **Work out** $5 \times £4.55$

9 Work out the **mean** 3, 12, 7, 12, 11

10 Complete the **equivalent fraction** $\frac{2}{3} = \frac{?}{15}$

Answers:

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)



Tuesday



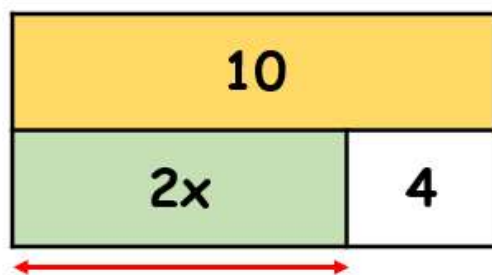
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Solving Equations- Unknowns on one side

Solve the equation
 $2x + 4 = 10$



What would the value of $2x$ have to be?

6

How does this look algebraically?

$$\begin{array}{r} 2x + 4 = 10 \\ -4 \qquad -4 \\ \hline 2x = 6 \\ \div 2 \qquad \div 2 \\ \hline x = 3 \end{array}$$

If $2x=6$ what is $1 x$? $x = 3$



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Tuesday Questions

Answers:

1 **Work out** £15.50 - £6.85

2 **Evaluate** 3^3

3 **Solve** $3x - 10 = 23$

4 **Round** 954 correct to 1 significant figure

5 **Work out** $-6 - 6$

6 Find the **nth term** 7, 10, 13, 16

7 **Simplify** the ratio 52 : 13

8 **Work out** $7 \times \text{£}12.45$

9 Work out the **mean** 0.6, 1.4, 0.2, 0.8, 2

10 Complete the **equivalent fraction** $\frac{5}{6} = \frac{?}{54}$

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)



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Wednesday

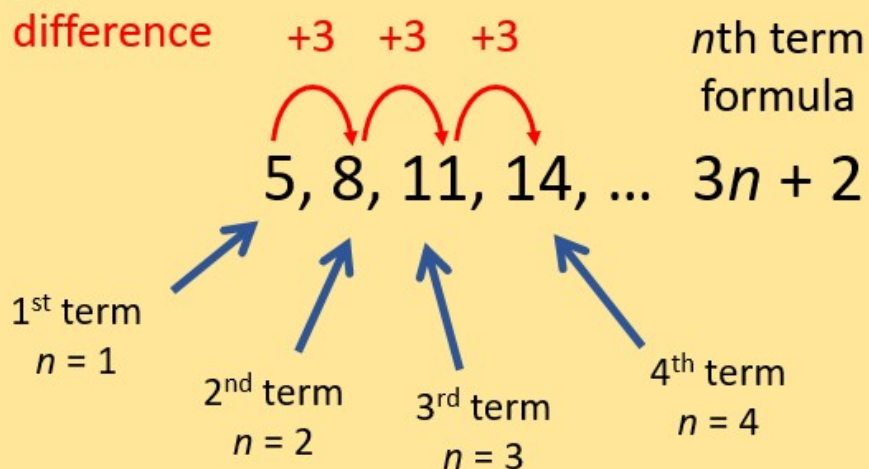


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Linear Sequences (Arithmetic Sequences)



In a linear sequence, the numbers increase/decrease by the same amount every time, just like a times table.

We want to find a formula for the *n*th term.
n = the position of the number (5th, 6th, 20th, 1000th)



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Wednesday Questions

- 1 **Work out** £132.99 - £99.45
- 2 **Evaluate** 5^3
- 3 **Solve** $20 - 3x = 2$
- 4 **Round** 0.8059 correct to 1 significant figure
- 5 **Work out** $6 - -9$
- 6 Find the **nth term** 6, 10, 14, 18
- 7 **Simplify** the ratio 108 : 18
- 8 **Work out** $6 \times \text{£}15.99$
- 9 Work out the **median** 5, 2, 12, 6, 4, 7
- 10 Complete the **equivalent fraction** $\frac{3}{7} = \frac{?}{63}$

Answers:

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)



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Thursday



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Example 1: Expanding brackets

• Expand $2(x + 4) - 3(x - 5)$

****Think Mrs Bridge's Dodgy Eyebrows!!**

$2x + 8 - 3x + 15$ (You then need to simplify)

Collect the 'x' terms = $-x$

Collect the numbers = 23

Combine = $-x + 23$



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Thursday Questions

Answers:

1 **Estimate** $5647 + 10874$

1)

2 **Work out** $\frac{2}{3} \times \frac{1}{4}$

2)

3 **Work out** $\text{£}47.60 \div 8$

3)

4 **Expand** $5(3x - 2)$

4)

5 **Express** 45% as a fraction in its lowest form

5)

6 What is the **highest common factor** of 35 and 63?

6)

7 **Work out** 7×-5

7)

8 **Express** the ratio 4 : 14 in the form 1 : n

8)

9 **Solve** $6x + 2 = 4x + 14$

9)

10 Express 24 as a **product of prime factors**

10)



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Friday



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Simplifying ratio

Simplify 24: 52

** Both in the 4 times table

Simplifies to:

6:13

Simplify 108: 48

** Both in the 12 times table

Simplifies to:

9:4

What common factors do these numbers have?



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Friday Questions

- 1 **Work out** $£125.99 + £135.99$
- 2 **Evaluate** 10^2
- 3 **Solve** $3(8x + 1) = -21$
- 4 **Round** 1992.3 correct to 1 significant figure
- 5 **Work out** $-5 + -12$
- 6 Find the **nth term** 5, 11, 17, 23
- 7 **Simplify** the ratio 80 : 24
- 8 **Work out** $6 \times £125.50$
- 9 Work out the **mode** 2, 4, 3, 1, 4, 2, 4
- 10 Complete the **equivalent fraction** $\frac{7}{16} = \frac{?}{48}$

Answers:

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)



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