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# 8B3

# 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

## 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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## Monday Questions

- 1 What is the **lowest common multiple** of 12 and 18?
- 2 **Work out**  $4 + 2 \times 3 + 1$
- 3 **Work out**  $272 \div 4$
- 4 **Find the next 2 terms** 5, 9, 13, 17,.....
- 5 What is 10% of £540?
- 6 What is the **value** of the underlined digit 540372?
- 7 **Express**  $\frac{12}{5}$  as a mixed number
- 8 **Simplify** 20 : 12
- 9 **Work out**  $4.5 \times 10$
- 10 Complete using **< = or >**  $\frac{2}{3}$  ?  $\frac{3}{4}$

Answers:

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



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# Tuesday



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# Revision slide

## Multiplying by 100

Let's see this in practice - show me what happens when we do these calculations.

$$3 \times 100 = 300$$

$$23.4 \times 100 = 2340$$

$$0.67 \times 100 = 67$$

$$2007.2 \times 100 = 200720$$

Millions			Thousands			Units			Decimals		



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# Tuesday Questions

Answers:

- 1) What is the **lowest common multiple** of 15 and 10?
- 2) **Work out**  $(4 + 2) \times 3$
- 3) **Work out**  $450 \div 6$
- 4) **Find the next 2 terms** 3, 10, 17, 24,....
- 5) What is 5% of £8200?
- 6) What is the **value** of the underlined digit  $12.\underline{5}3$ ?
- 7) **Express**  $\frac{11}{3}$  as a mixed number
- 8) **Simplify** 18 : 40
- 9) **Work out**  $12.02 \times 100$
- 10) Complete using **< = or >**  $\frac{5}{6}$  ?  $\frac{7}{9}$



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# Wednesday

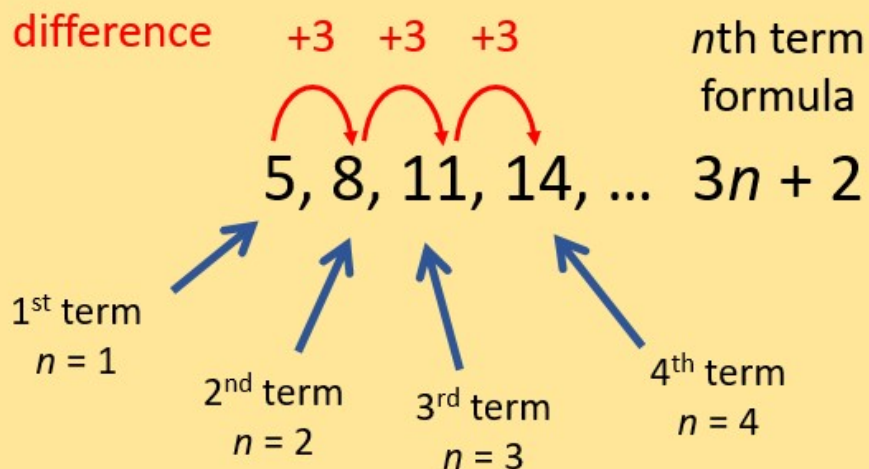


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# Revision slide

## 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 (5<sup>th</sup>, 6<sup>th</sup>, 20<sup>th</sup>, 1000<sup>th</sup>)



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## Wednesday Questions

- 1 What is the **lowest common multiple** of 8 and 10?
- 2 **Work out**  $2 \times (3 + 7)$
- 3 **Work out**  $602 \div 7$
- 4 **Find the next 2 terms** -6, -4, -2, 0,....
- 5 What is 5% of £660?
- 6 What is the **value** of the underlined digit 15.242?
- 7 **Express**  $\frac{15}{4}$  as a mixed number
- 8 **Simplify** 24 : 44
- 9 **Work out**  $5.91 \times 1000$
- 10 Complete using **< = or >**  $\frac{2}{7}$  ?  $\frac{1}{5}$

Answers:

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



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# Thursday



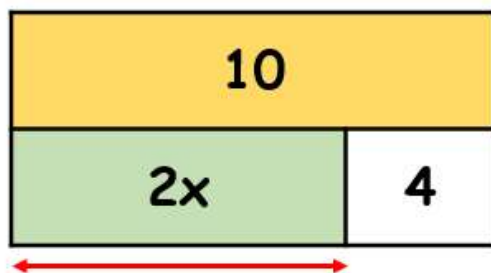
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# Revision slide

## 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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## Thursday Questions

Answers:

1 What was the time 55 minutes **before** 6:10?

1)

2 **Work out**  $\frac{4}{5} - \frac{1}{5}$

2)

3 **Solve**  $x + 5 = 12$

3)

4 **Work out**  $12.4 \times 5$

4)

5 What is 5% of £240?

5)

6 **Work out**  $0.4 \times 100$

6)

7 Complete using **<, = or >** 5m **?** 550 cm

7)

8 Write in order 0.2, 0.22, 0.202

8)

9 List the first 6 **prime numbers**

9)

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

10)



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# Friday



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# Revision slide

## Recognizing mathematical patterns...

What's the same and what's different?

1)  $800 \times 40 = 32000$

2)  $80 \times 40 = 3200$

3)  $8 \times 40 = 320$

So we can use these relationships to multiply decimals...

So what would these be?

1)  $0.8 \times 40 = 32$

2)  $0.08 \times 40 = 3.2$

## Multiplying with decimals

If you know that ...

$$18 \times 71 = 1278$$

Which of these can we work out?

$$18 \times 7.1 = 127.8$$

$$1.8 \times 7.1 = 12.78$$

$$36 \times 71 = 2556$$

$$0.18 \times 71 = 12.78$$



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# Friday Questions

1 What is the time 55 minutes **after** 4:25?

2 **Work out**  $2\frac{3}{8} - 1\frac{1}{4}$

3 **Solve**  $x - 5 = 4$

4 **Work out**  $25.5 \times 5$

5 What is 15% of £420?

6 **Work out**  $0.08 \times 1000$

7 Complete using **<, = or >** 2.5 m **?** 240 cm

8 Write in order 0.19, 0.2, 0.192

9 List the **factors** of 40

10 **Work out**  $\frac{3}{4} \times \frac{1}{5}$

**Answers:**

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)



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