



**Take the attitude of a student, never be too big to ask questions, never know too much to learn something new.**

Og Mandino

Welcome to this edition of W/C 20.2.23. Within this print, you will find a review of recent learning, an exercise to aid with retrieval and something fun! We hope you like it!

## REVIEW OF RECENT LEARNING

This is an "I do, you do" example pair for the topic: Calculate growth/decay



Scan for answers



Scan for video

I DO

Ruth invests £70 into a bank account returning 4% each year for 5 years. How much does Ruth have in the account after 5 years?

When dealing with growth/decay or in this specific case, compound interest, represent the problem using the following:

original amount x multiplier<sup>years</sup>

Decimal multiplier to represent the context of the question and the percentage

$$\begin{array}{l}
 \text{Original } \rightarrow 70 \times 1.04^5 \leftarrow 5 \text{ years} \\
 \text{Adding 4\% onto 100\%} \\
 = £85.17
 \end{array}$$

YOU DO

Tia lost 6% on the value of a car worth £400 each year for 3 years. How much is the vehicle now worth?

This is an "I do, you do" example pair for the topic: Percentage change



Scan for answers



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I DO

An amount increased from 50 to 85. Calculate the percentage change (to 1dp where needed).

Percentage change can be found using:

$$\frac{\text{The difference}}{\text{Original amount}} \times 100$$

Positive difference

$$\begin{array}{l}
 \text{Percentage change} = \frac{85-50}{50} \times 100 \\
 = \frac{35}{50} \times 100 = 70\%
 \end{array}$$

YOU DO

An amount decreased from 65 to 40. Calculate the percentage change (to 1dp where needed).

## RETRIEVAL OF PAST LEARNING

1★ FOUNDATION/HIGHER

Write down all of the factors of 26.

2★ FOUNDATION/HIGHER

Write down the first 5 multiples of 9.

3★ FOUNDATION/HIGHER

Write down a common factor of 24 and 30 (excluding 1).

4★ FOUNDATION/HIGHER

Write down the highest common factor of 16 and 52.

5★ FOUNDATION/HIGHER

Write down the highest common factor of 24, 12 and 42.

6★ FOUNDATION/HIGHER

If the lowest common multiple of 2 numbers is 140, state the second number if the first is 7.

## FUN ZONE

**Solve the following Facebook style problem:**

The 4 numbers around the circle are operated on to get the center number.

Find the unknown number:



**Interesting fact**

The reason Americans call mathematics “math”, is because they argue that “mathematics” functions as a singular noun so ‘math’ should be singular too.

## ANNOUNCEMENTS

## ANSWERS

1★ FOUNDATION/HIGHER

1, 2, 13, 26

2★ FOUNDATION/HIGHER

9, 18, 27, 36, 45

3★ FOUNDATION/HIGHER

Any factor from the following  
list:  
2 or 3 or 6

4★ FOUNDATION/HIGHER

4

5★ FOUNDATION/HIGHER

12

6★ FOUNDATION/HIGHER

20

## FUN ZONE

**Facebook problem answer:**

69