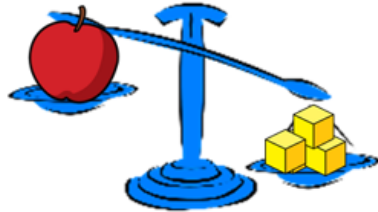# Flashback 4

Year 2 | Week 8 | Day 4

1) Which is heavier, the apple or the 3 blocks? [   ]
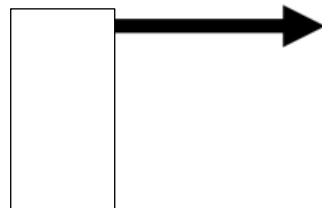
2) How many minutes are in half an hour? [   ]
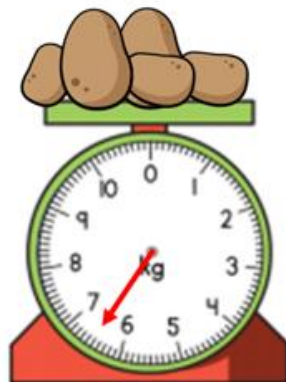
3) Draw the arrow after a quarter turn clockwise.

4) What is one quarter of 16? [   ]
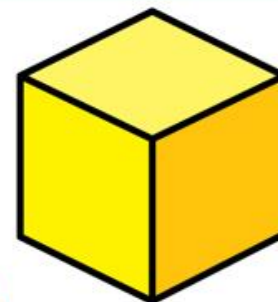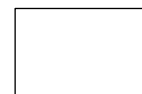
White Rose Maths

Flashback 4

1) The potatoes weigh ☐ kg and ☐ g
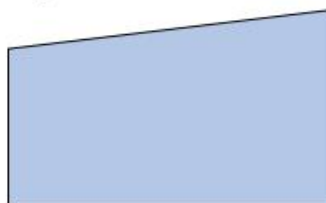
2) How many pairs of perpendicular lines are in the shape? ☐

3) How many acute angles are in the shape above? ☐

4) Which number is represented? ☐
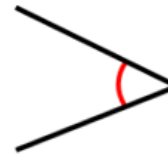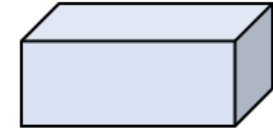
White Rose Maths

Flashback 4

1) What type of angle is this?

2) True or False?

More chocolate eggs were sold in May than March.

Sales of Chocolate Eggs
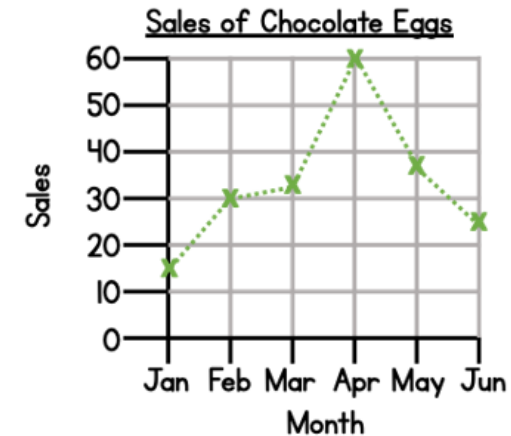
3) How many days are in a leap year?

4) Divide 462 by 3
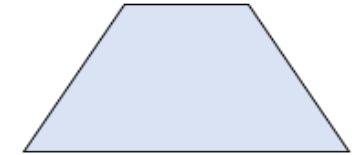
White Rose Maths

Flashback 4

1) How many mm are the same as 0.6 m?

2) What will the coordinates of the vertices be if the triangle is reflected in the mirror line?
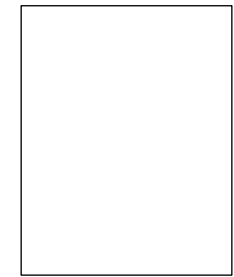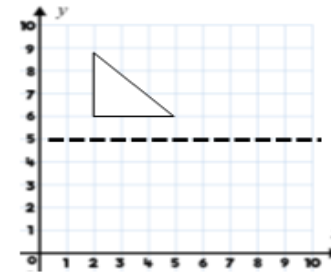
3) What is the sum of the angles in a full turn?

4) Add 6,294 to 7,341

White Rose Maths

Flashback 4
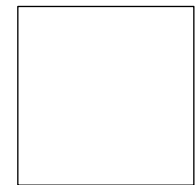
1) How many degrees are there in a right angle?
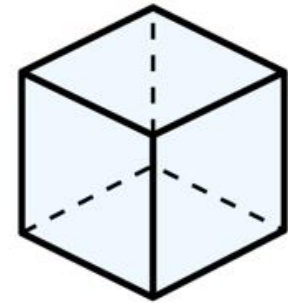
2) Eva mixes 2 parts of juice with 3 parts of water
If she uses 10 parts of juice, how many parts of water should she use?

3) Find the perimeter of the square.

21 cm

4) Round 7,825 to the nearest hundred.

White Rose Maths

Flashback 4

1) Which is heavier, the apple or the 3 blocks? **The 3 blocks**

2) How many minutes are in half an hour? **30**

3) Draw the arrow after a quarter turn clockwise.
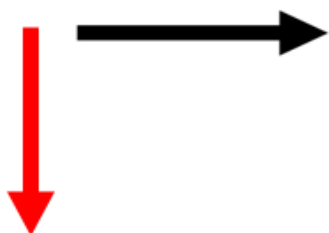
4) What is one quarter of 16? **4**

White Rose Maths
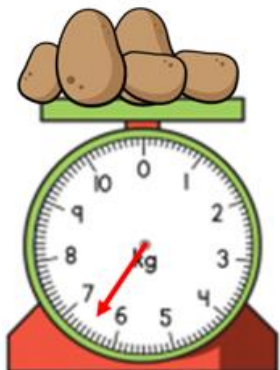
Flashback 4

1) The potatoes weigh __6__ kg and __500__ g
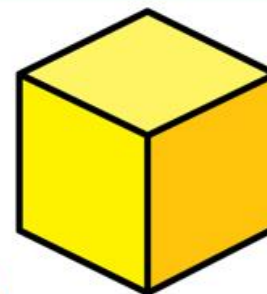
2) How many pairs of perpendicular lines are in the shape?
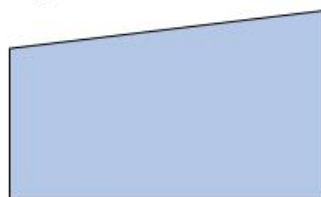
2

3) How many acute angles are in the shape above?   1

4) Which number is represented?   304

White Rose Maths

Flashback 4
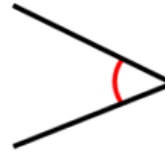
1) What type of angle is this? **acute angle**
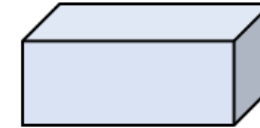
2) True or False?

More chocolate eggs were sold in May than March. **True**

Sales of Chocolate Eggs
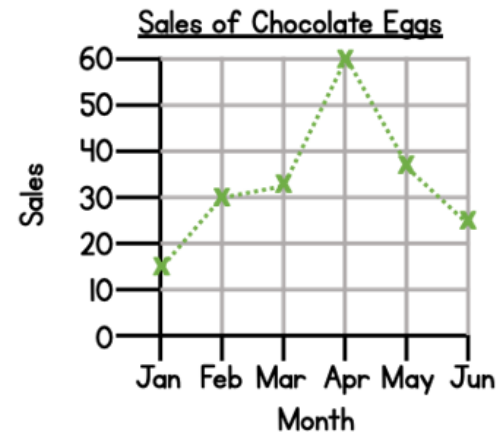
3) How many days are in a leap year? **366 days**

4) Divide 462 by 3 **154**

White Rose Maths

# Flashback 4

1) How many mm are the same as 0.6 m?   600
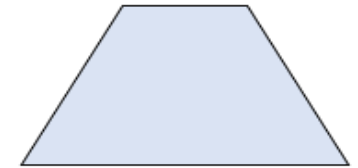
2) What will the coordinates of the vertices be if the triangle is reflected in the mirror line?
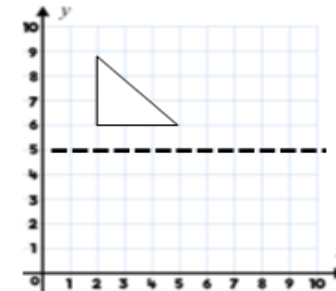
(2,4)
(5,4)
(2,1)

3) What is the sum of the angles in a full turn?   360°

4) Add 6,294 to 7,341   13,635

White Rose Maths

Level 1 – Measuring Time in seconds

Level 2 – Hours, Minutes and Seconds

FACTS YOU MIGHT NEED

HOW MANY DAYS ARE THERE IN EACH MONTH?

HOW MANY DAYS IN A YEAR?

HOW MANY DAYS IN A LEAP YEAR?

60 SECONDS = 1 MINUTE

60 MINUTES = 1 HOUR

15 MINUTES = ¼ AND HOUR

30 MINUTES = ½ AN HOUR

45 MINUTES = ¾ HOUR

24 HOURS = 1 FULL DAY

7 DAYS = 1 WEEK

14 DAYS = 1 FORTNIGHT (NOT FORTNITE THE GAME)

28 DAYS = 4 WEEKS = A MONTH (NOT A CALENDAR MONTH)

365 DAYS (AND $\frac{1}{4}$) = 52 WEEKS = 1 YEARS = 366 DAYS = 52 WEEKS = 1 LEAP YEAR

1 The table shows how long it took four children to run a race.

Child	Time
Annie	2 minutes 40 seconds
Dora	2 minutes 3 seconds
Tommy	2 minutes 30 seconds
Teddy	2 minutes 4 seconds

a) Match each child to a time.

Annie   Dora   Tommy   Teddy

00:02:30   00:02:04   00:02:03   00:02:40

b) Using the fact that there are 60 seconds in one minute, write each child's time in seconds.

2 Scott draws a bar model to help him convert 3 minutes and 17 seconds into seconds.

60	60	60	17

60 + 60 + 60 + 17 = 197

So 3 minutes and 17 seconds = 197 seconds

Talk to a partner about why Scott's method works.

3 Complete the statements.

a) 2 minutes and 17 seconds = [ ] seconds

b) 5 minutes and 12 seconds = [ ] seconds

c) 4 minutes and 42 seconds = [ ] seconds

d) 3 minutes and [ ] seconds = 199 seconds

e) [ ] minutes and 7 seconds = 367 seconds

f) [ ] minutes and [ ] seconds = 261 seconds

g) 654 seconds = [ ] minutes and [ ] seconds

4 Write <, > or = to compare the times.

a)   1 minute and 23 seconds   ◯   81 seconds

b)   2 minutes and 15 seconds   ◯   135 seconds

c)   89 seconds   ◯   1 minute and 34 seconds

5

327 seconds is the same as 3 minutes and 27 seconds.

Do you agree with Whitney?

Why?

3 Complete the statements.

a) 2 minutes and 17 seconds = ⬚ seconds

b) 5 minutes and 12 seconds = ⬚ seconds

c) 4 minutes and 42 seconds = ⬚ seconds

d) 3 minutes and ⬚ seconds = 199 seconds

e) ⬚ minutes and 7 seconds = 367 seconds

f) ⬚ minutes and ⬚ seconds = 261 seconds

g) 654 seconds = ⬚ minutes and ⬚ seconds

4 Write <, > or = to compare the times.

a) 1 minute and 23 seconds ◯ 81 seconds

b) 2 minutes and 15 seconds ◯ 135 seconds

c) 89 seconds ◯ 1 minute and 34 seconds

5

327 seconds is the same as 3 minutes and 27 seconds.

Do you agree with Whitney?

Why?

6 How long does the roller coaster ride last in minutes and seconds?

Duration 137 seconds

7 Alex, Jack and Amir are doing a puzzle.

They want to know who did it the quickest.

I did it in 152 seconds.

Alex

I did it in 2 minutes and 42 seconds.

Jack

I did it 10 seconds faster than Alex.

Amir

a) How long did each child take to complete the puzzle?
   Give your answer in seconds, and in minutes and seconds.

b)

I won because my time was highest!

Jack

Do you agree with Jack?

Talk about it with a partner.

1 Sort the activities into the table depending on approximately how long each one takes to complete.

| travel to school | wash and dry laundry | get dressed |

| travel to the Moon | watch a TV show | listen to a song |

| eat a small chocolate bar | sneeze | write your name |

Less than 10 seconds	Less than 1 minute	Less than 5 minutes	Less than 1 hour	More than 1 hour

2 Complete the statements.

a) one minute = ☐ seconds   c) one day = ☐ hours

2 minutes = ☐ seconds   3 days = ☐ hours

4 minutes = ☐ seconds   12 days = ☐ hours

eighty minutes = ☐ seconds   thirty days = ☐ hours

b) 1 hour = ☐ minutes   d) 1 minute = ☐ seconds

5 hours = ☐ minutes   1 hour = ☐ minutes

ten hours = ☐ minutes   1 hour = ☐ seconds

15 hours = ☐ minutes   2 hours = ☐ seconds

How did you work this out? Talk about it with a partner.

3 Write <, > or = to complete the statements.

5 minutes ◯ 5 seconds $\frac{1}{2}$ hour ◯ 60 minutes

5 minutes ◯ 50 seconds $\frac{1}{2}$ hour ◯ 6 minutes

5 minutes ◯ 500 seconds   30 minutes ◯ $\frac{1}{2}$ hour

4 Huan ran a race in 3.5 minutes.

Eva ran the race in 312 seconds.

Who was quicker?

How much quicker were they?

5 The time is 10 past 3

Draw hands on the clocks to show what time it will be:

a) in 10 minutes

b) in 60 minutes

LEVEL 2

3 Write <, > or = to complete the statements.

5 minutes ◯ 5 seconds

$\frac{1}{2}$ hour ◯ 60 minutes

5 minutes ◯ 50 seconds

$\frac{1}{2}$ hour ◯ 6 minutes

5 minutes ◯ 500 seconds

30 minutes ◯ $\frac{1}{2}$ hour

4 Huan ran a race in 3.5 minutes.

Eva ran the race in 312 seconds.

Who was quicker?

How much quicker were they?

5 The time is 10 past 3

Draw hands on the clocks to show what time it will be:

a) in 10 minutes

b) in 60 minutes

c) in 120 seconds

d) in 1.5 hours
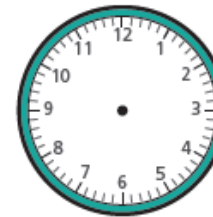
6 Scott, Esther and Dani timed how long it took to have a shower.

Scott = $\frac{1}{10}$ hour   Esther = 315 seconds   Dani = 3 mins 27 secs

How long did it take them in total?

What was the difference between the longest and shortest times?

7 Brett, Annie, Aisha and Filip are going on holiday.

Here are the total lengths of their journeys.

Brett	12 hours longer than Filip
Annie	$1\frac{1}{4}$ days
Aisha	twice as long as Brett
Filip	360 minutes

Work out how many hours it took each person.

Place them in order from the shortest to the longest journey.

Measuring time in seconds

White Rose Maths

1 The table shows how long it took four children to run a race.

Child	Time
Annie	2 minutes 40 seconds
Dora	2 minutes 3 seconds
Tommy	2 minutes 30 seconds
Teddy	2 minutes 4 seconds

a) Match each child to a time.

Annie   Dora   Tommy   Teddy

00:02:30   00:02:04   00:02:03   00:02:40

b) Using the fact that there are 60 seconds in one minute, write each child's time in seconds.

Annie [160] seconds   Tommy [150] seconds

Dora [123] seconds   Teddy [124] seconds

2 Scott draws a bar model to help him convert 3 minutes and 17 seconds into seconds.

60	60	60	17

$60 + 60 + 60 + 17 = 197$

So 3 minutes and 17 seconds = 197 seconds

Talk to a partner about why Scott's method works.

3 Complete the statements.

a) 2 minutes and 17 seconds = [137] seconds

b) 5 minutes and 12 seconds = [312] seconds

c) 4 minutes and 42 seconds = [282] seconds

d) 3 minutes and [19] seconds = 199 seconds

e) [6] minutes and 7 seconds = 367 seconds

f) [4] minutes and [21] seconds = 261 seconds

g) 654 seconds = [10] minutes and [54] seconds

4 Write <, > or = to compare the times.

a) 1 minute and 23 seconds (>) 81 seconds

b) 2 minutes and 15 seconds (=) 135 seconds

c) 89 seconds (<) 1 minute and 34 seconds

5

327 seconds is the same as 3 minutes and 27 seconds.

Do you agree with Whitney? ___No___

Why?

6 How long does the roller coaster ride last in minutes and seconds?

The roller coaster ride lasts [2] minutes and [17] seconds.

Duration 137 seconds

7 Alex, Jack and Amir are doing a puzzle.

They want to know who did it the quickest.

I did it in 152 seconds.

Alex

I did it in 2 minutes and 42 seconds.

Jack

I did it 10 seconds faster than Alex.

Amir

a) How long did each child take to complete the puzzle? Give your answer in seconds, and in minutes and seconds.

Alex [152] seconds [2] minutes and [32] seconds

Jack [162] seconds [2] minutes and [42] seconds

Amir [142] seconds [2] minutes and [22] seconds

b)

I won because my time was highest!

Jack

Do you agree with Jack? ___No___

Talk about it with a partner.

Hours, minutes and seconds

LEVEL 2 ANSWERS

1 Sort the activities into the table depending on approximately how long each one takes to complete.

(travel to school) (wash and dry laundry) (get dressed)

(travel to the Moon) (watch a TV show) (listen to a song)

(eat a small chocolate bar) (sneeze) (write your name)

e.g.

Less than 10 seconds	Sneeze write your name
Less than 1 minute	eat a small chocolate bar
Less than 5 minutes	get dressed listen to a song
Less than 1 hour	travel to school watch a TV show
More than 1 hour	travel to the moon wash and dry laundry

2 Complete the statements.

a) one minute = 60 seconds   b) 1 hour = 60 minutes

2 minutes = 120 seconds   5 hours = 300 minutes

4 minutes = 240 seconds   ten hours = 600 minutes

eighty minutes = 4,800 seconds   15 hours = 900 minutes

c) one day = 24 hours   d) 1 minute = 60 seconds

3 days = 72 hours   1 hour = 60 minutes

12 days = 288 hours   1 hour = 3,600 seconds

thirty days = 720 hours   2 hours = 7,200 seconds

How did you work this out? Talk about it with a partner.

3 Write <, > or = to complete the statements.

5 minutes $>$ 5 seconds

5 minutes $>$ 50 seconds

5 minutes $<$ 500 seconds

$\frac{1}{2}$ hour $<$ 60 minutes

$\frac{1}{2}$ hour $>$ 6 minutes

30 minutes $=$ $\frac{1}{2}$ hour

4 Huan ran a race in 3.5 minutes.

Eva ran the race in 312 seconds.

Who was quicker?

Huan _____ was quicker.

How much quicker were they?

1 minute 42 seconds quicker

5 The time is 10 past 3

Draw hands on the clocks to show what time it will be:

a) in 10 minutes

c) in 120 seconds

b) in 60 minutes

d) in 1.5 hours

6 Scott, Esther and Dani timed how long it took to have a shower.

Scott = $\frac{1}{10}$ hour   Esther = 315 seconds   Dani = 3 mins 27 secs

How long did it take them in total?   **882** seconds

What was the difference between the longest and shortest times?

2 minutes **33** seconds

7 Brett, Annie, Aisha and Filip are going on holiday.

Here are the total lengths of their journeys.

Brett	12 hours longer than Filip
Annie	$1\frac{1}{4}$ days
Aisha	twice as long as Brett
Filip	360 minutes

Work out how many hours it took each person.

Place them in order from the shortest to the longest journey.

	Name	Time
shortest journey	Filip	**6** hours
	Brett	**18** hours
	Annie	**30** hours
longest journey	Aisha	**36** hours