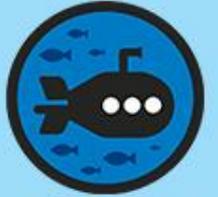
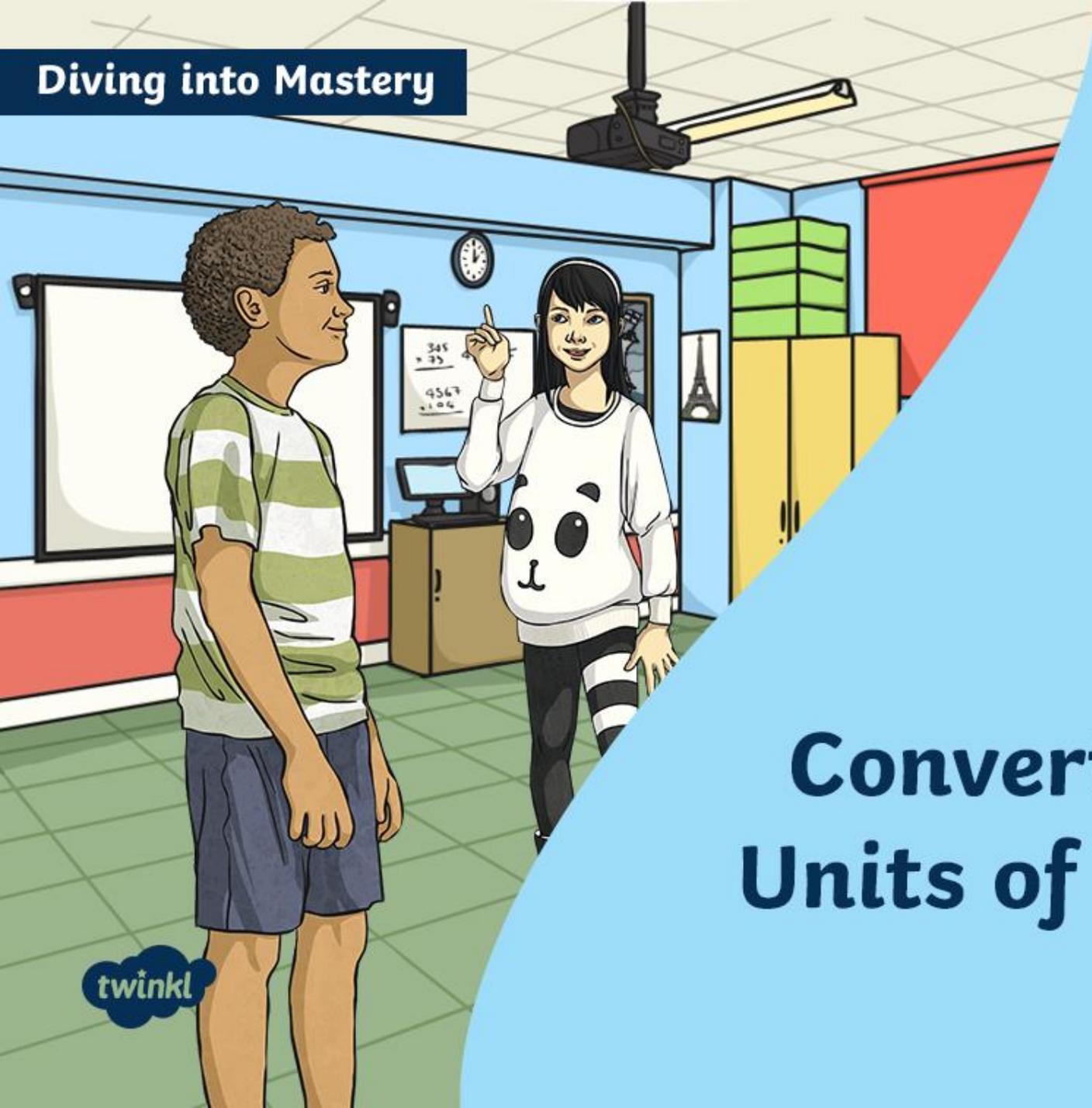


Diving into Mastery



Converting Units of Time



A minute = 60 seconds

An hour = 60 minutes

A day = 24 hours

A week = 7 days

A month = 28 days

A year = 52 weeks

A year = 365 days (clear year)

A year = 366 days (leap year)

A decade = 10 years

A century = 100 years

A millennium = 1000 years

Months of the Year Poem

**30 days have September,
April, June and November.
All the rest have 31
Except February alone
Which has 28 days clear
And 29 each leap year.**

How many days are there in 2 months?

$$28 \times 2 = 56 \text{ days}$$

How many days are there in 3 weeks?

$$3 \times 7 = 21 \text{ days}$$

How many months are there in 4 years?

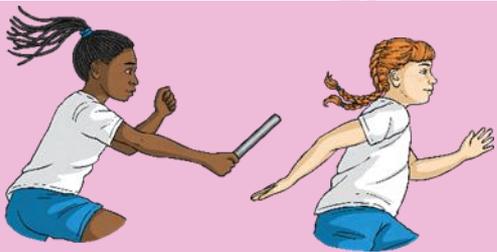
$$4 \times 12 = 48 \text{ months}$$

How many seconds are there in 6 minutes?

$$6 \times 60 = 360 \text{ seconds}$$

Converting Units of Time

Convert the units of time.



3 minutes and
9 seconds

$$60 + 60 + 60 + 9$$

or

$$3 \times 60 + 9$$

189 seconds



1 hour and 25
minutes

$$60 + 25$$

85 minutes



3 weeks and
1 day

$$7 + 7 + 7 + 1$$

or

$$3 \times 7 + 1$$

22 days

Converting Units of Time

Convert the units of time.



8 years and
4 months

$$12 \times 8 + 4$$

100 months

3 days and
8 hours

$$3 \times 24 + 8$$

80
hours



$$2 \times 60 + 45$$

$2\frac{3}{4}$ hours

165 minutes

Converting Units of Time

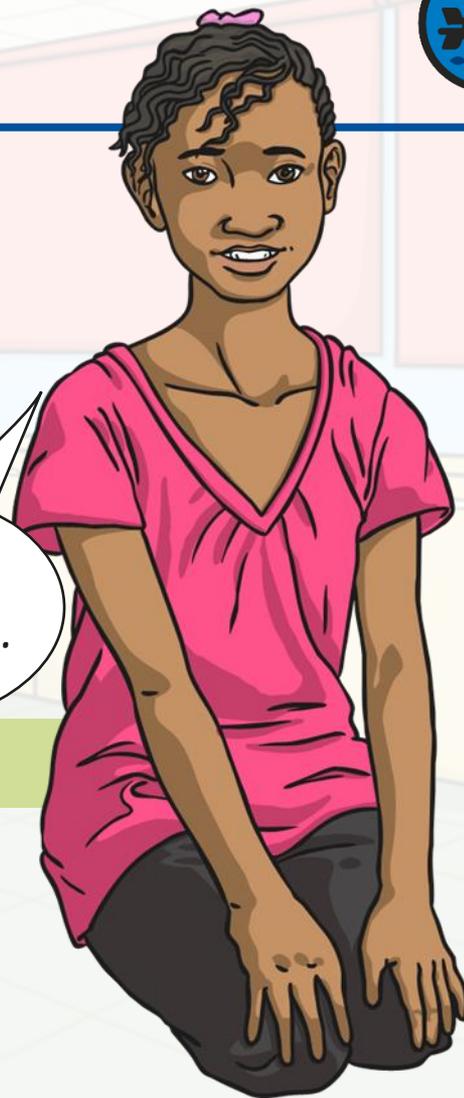


Tomek
730 days



Gill
22 months

Gill is the
eldest child.



Is Sam correct? Explain your answer.

Convert the units of time so they are both the same.

Gill – 12 + 10 = 1 year and 10 months

Tomek – 365 + 365 = 730 days = 2 years

Converting Units of Time

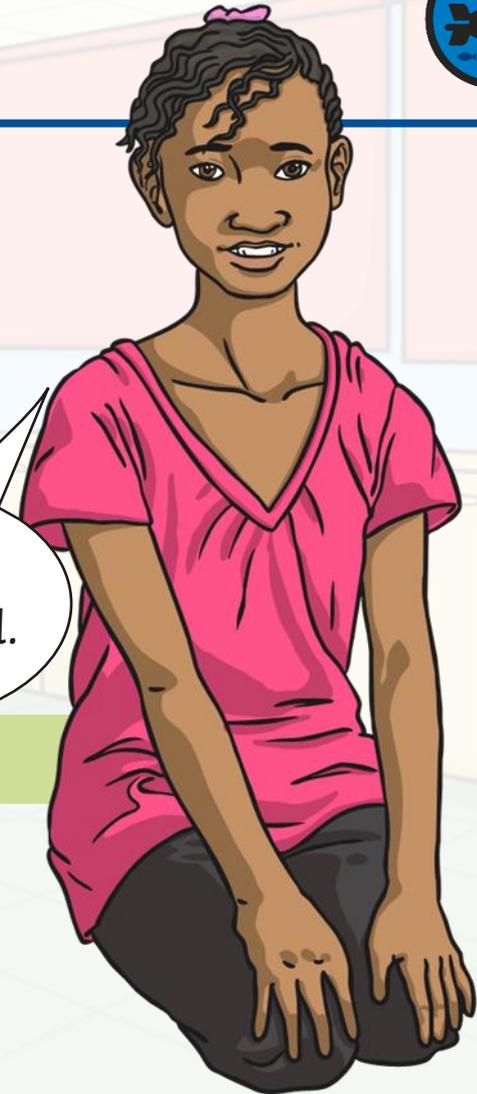


Tomek
730 days



Gill
22 months

Gill is the
eldest child.



Is Sam correct? Explain your answer.

**Sam is incorrect.
730 days equals 2 years and 22 months equals 1 year
and 10 months.**



Here are four films and their running times:



**Clowning
Around**

1 hour and
56 minutes



Dance School
100 minutes

Dance School is
120 seconds longer
than Ghost House.

**Superhero
Squad**
 $1\frac{3}{4}$ hours



**Ghost
House**
1 hour and
38 minutes



Is Sam correct? Explain your answer.

Sam is correct. Ghost House is 98 minutes (60 + 38) and Dance School is 100 minutes. This is a difference of 2 minutes, which is equal to 120 seconds.

Converting Units of Time

Ola is taking part in a sponsored silence for charity.

Three of Ola's friends agree to sponsor her for the following amounts:



Ben

£1 for every 5 minutes

£6



Michael

£1.50 for every 600 seconds

£4.50



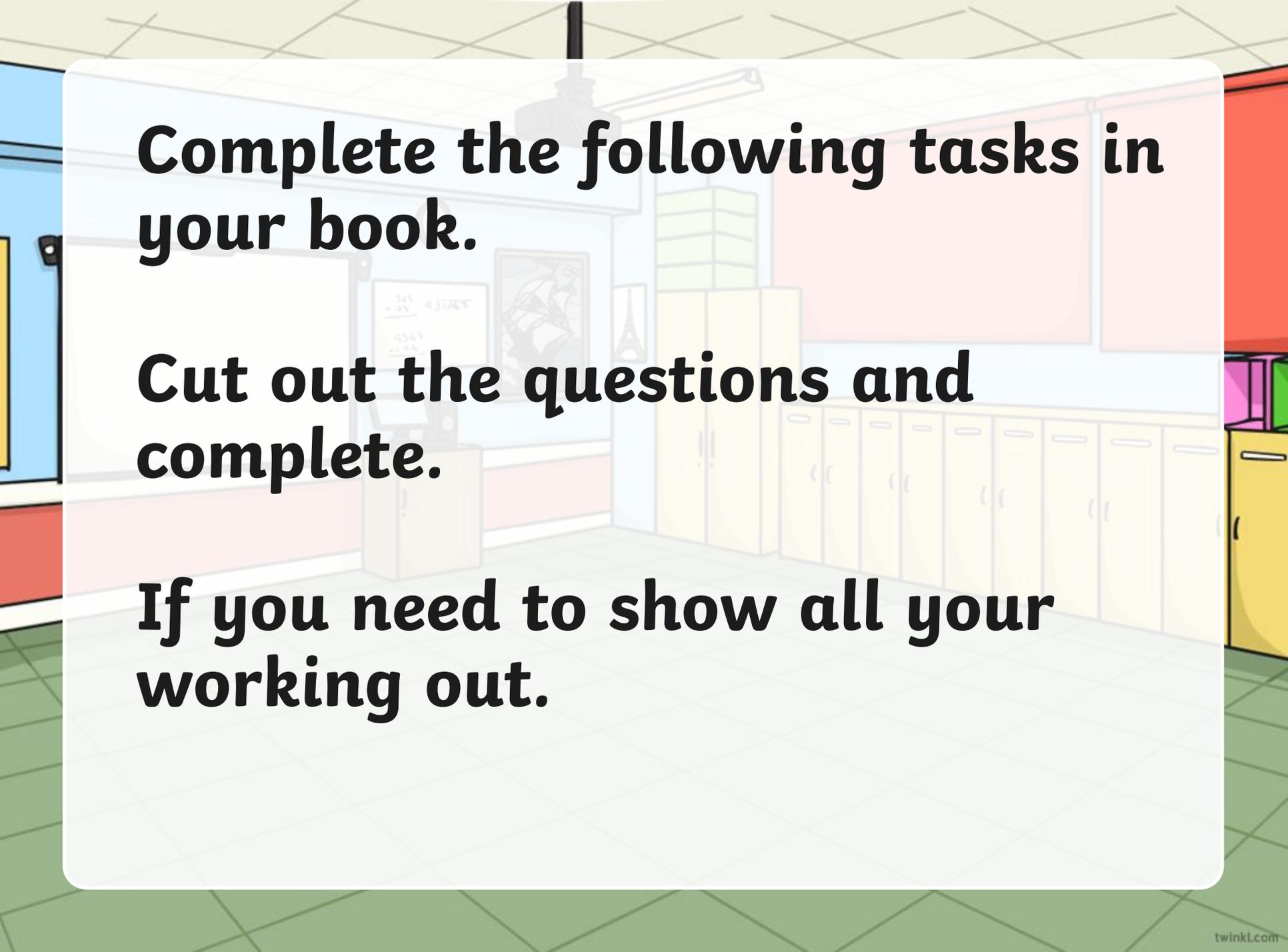
Lucie

£2.00 for every quarter of an hour

£4

a) How much will each friend give to Ola after 30 minutes of silence?

$4/4 = 1$ hour $2/4 = 30$ minutes. $£2 \times 4 = £8$ per hour 30 mins = $£4$

A cartoon illustration of a school hallway. In the background, there are yellow lockers, a whiteboard with a math problem, a desk with a computer, and a red wall. The floor is green and white checkered.

Complete the following tasks in your book.

Cut out the questions and complete.

If you need to show all your working out.

Complete the conversions.

1 year = _____ months

_____ years = 24 months

_____ years = 60 months

2.5 years = _____ months

3 years 2 months = _____ months

_____ years _____ months = 75 months

Complete the table.

Days	Weeks/ Weeks and Days
42 days	
	5 weeks and 5 days
	10 weeks and 5 days
100 days	

1 hour = 60 minutes 1 minute = 60 seconds

Use this information to complete the conversions.

75 minutes = 1 _____ and 15

240 _____ = 4 minutes

Mr. King's Maths group – if you want a challenge complete the next question.

Mrs. Wingfield & Ms. Baldwin's groups – all to complete the next question.

Three children are running a race.

- Tim finishes the race in 3 minutes 5 seconds.
- Lila finishes the race in 192 seconds.
- Pip finishes the race in 2 minutes and 82 seconds.

Who finishes the race first?



Stop here!

**Only go ahead when you
have finished your task
and to mark your
answers!**

Answers:

Complete the conversions.

$$1 \text{ year} = \underline{12} \text{ months}$$

$$\underline{2} \text{ years} = 24 \text{ months}$$

$$\underline{5} \text{ years} = 60 \text{ months}$$

$$2.5 \text{ years} = \underline{18} \text{ months}$$

$$3 \text{ years } 2 \text{ months} = \underline{38} \text{ months}$$

$$\underline{6} \text{ years } \underline{3} \text{ months} = 75 \text{ months}$$

Complete the table.

Days	Weeks/ Weeks and Days
42 days	6 weeks
40 days	5 weeks and 5 days
75 days	10 weeks and 5 days
100 days	14 weeks and 2 days

1 hour = 60 minutes 1 minute = 60 seconds

Use this information to complete the conversions.

75 minutes = 1 hour and 15

240 seconds = 4 minutes

Three children are running a race.

- Tim finishes the race in 3 minutes 5 seconds.
- Lila finishes the race in 192 seconds.
- Pip finishes the race in 2 minutes and 82 seconds.

Who finishes the race first?



Tim: 3 min 5 s

Lila: 3 min 12 s

Pip: 3 min 22 s

Tim finishes the race first.