

Summer term w/b 29th June 2020

Calendars

Quick check:

Can you remember/find out how many days in:

Each month, a year, a leap year and a fortnight?

Look at the calendar. What do you notice? Days at the top; weekends in a different colour.

January Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 6 ● 14 ● 21 ○ 27 ○	February Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 4 ● 12 ○ 19 ○ 26 ○	March Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 6 ● 14 ● 21 ○ 28 ○
April Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 5 ● 12 ○ 19 ○ 26 ○	May Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 4 ● 12 ○ 18 ○ 26 ○	June Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 3 ● 10 ● 17 ○ 25 ○
July Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 2 ● 9 ○ 16 ○ 25 ○	August Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 ● 7 ○ 15 ○ 23 ○ 30 ●	September Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 6 ○ 14 ○ 22 ○ 28 ●
October Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 5 ○ 13 ○ 21 ○ 28 ●	November Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 4 ○ 12 ○ 19 ○ 26 ●	December Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 4 ○ 12 ○ 19 ○ 26 ●

Questions:

- 1) What day is the 11th April?..... Thursday.
- 2) Today is the 6th August. What will the date be in a week?.....15th August.
Notice that to add on a week you go to the date below (just add 7)
- 3) Today is the 29th August. What will it be in a week?5th September.
This is harder to do as it crosses into a different month.

Now you have a go!

Activity:

Use the calendar to answer the questions.

E4E: Can you write your own time questions?

Converting minutes to seconds

Q: How would you work out 60×3 ?

$6 \times 3 = 18$ SO $60 \times 3 = 180$

There are 60 seconds in 1 minute.

Q: How many seconds in 3 minutes?

$60 \times 3 = 180$ seconds.

Q: How many seconds in $4 \frac{1}{2}$ minutes?

60×4

$(6 \times 4 = 24$ SO $60 \times 4 = 240$ seconds)

(half of 1 minute - 30 seconds)

$240 \text{ seconds} + 30 \text{ seconds} = 270 \text{ seconds}$.

Now try these: (work out how many seconds)

1) 2 minutes

2) 4 minutes

3) 5 minutes

4) 7 minutes

5) 10 minutes

6) $3 \frac{1}{2}$ minutes

1) 8 minutes

2) 11 minutes

3) $6 \frac{1}{2}$ minutes

4) $10 \frac{1}{2}$ minutes

5) $9 \frac{1}{4}$ minutes

6) $12 \frac{1}{4}$ minutes

Converting seconds to minutes (the other way round!!)

There are 60 seconds in 1 minute.

Q: How many minutes in 120 seconds?

To work this out you need to work out $120 \div 60$!

Looks tough BUT you can work out $12 \div 6 = 2$ SO $120 \div 60 = 2$ minutes.

Another way to work this out is to write out:

60 seconds = 1 minute

120 seconds ($60 + 60$) = 2 minutes

Q: How many minutes in 240 seconds?

EITHER: $240 \div 60$ ($24 \div 6 = 4$) = 4 minutes

OR:

60 seconds = 1 minute

$60 + 60 = 120$ seconds = 2 minutes

$60 + 60 + 60 = 180$ seconds = 3 minutes

$60 + 60 + 60 + 60 = 240$ seconds = 4 minutes

E4E:

Q: How many minutes in 200 seconds?

60 seconds = 1 minute

$60 + 60 = 120$ seconds = 2 minutes

$60 + 60 + 60 = 180$ seconds = 3 minutes 20 seconds

Now try these: (work out how many minutes)

- 1) 120 seconds
- 2) 180 seconds
- 3) 240 seconds
- 4) 300 seconds
- 5) 360 seconds
- 6) 90 seconds

- 1) 300 seconds
- 2) 360 seconds
- 3) 600 seconds
- 4) 350 seconds
- 5) 270 seconds
- 6) 400 seconds

E4E:

Dan takes 153 seconds to skip around the playground. Tilly takes 2 minutes 23 seconds. Who is the quickest? Explain how you know.

Reading time

Clocks now come as digital and analogue.

Digital:



Analogue:



You need to be able to read and write analogue times and use your knowledge of Roman numerals too:



With analogue time you need to state whether it is morning (am) or afternoon (pm) - for this work you can decide whether it is morning or afternoon.

e.g.



quarter to 4 in the afternoon = 3.45pm

See attached sheets for writing the time (choose one which challenges you a little).

Writing time

See attached sheets for you to draw on the hands of the clock. If you don't have a printer then you could just show your parents where the hands of the clock would go on any analogue clock you have at home.

The sheets have a range of times and the hardest is the time to the nearest minute. You don't necessarily have to do all of them just choose one that will challenge you a little.

I have attached a blank clock sheet if you want to practise some extra times.

Well done if you can tell the time to the nearest minute already 😊

ANSWERS:

Minutes to seconds

1) 2 minutes = 120 seconds	1) 8 minutes = 480 seconds
2) 4 minutes = 240 seconds	2) 11 minutes = 660 seconds
3) 5 minutes = 300 seconds	3) $6\frac{1}{2}$ minutes = 390 seconds
4) 7 minutes = 420 seconds	4) $10\frac{1}{2}$ minutes = 630 seconds
5) 10 minutes = 600 seconds	5) $9\frac{1}{4}$ minutes = 555 seconds
6) $3\frac{1}{2}$ minutes = 210 seconds	6) $12\frac{1}{4}$ minutes = 735 seconds

Seconds to minutes

1) 120 seconds = 2 minutes	1) 300 seconds = 5 minutes
2) 180 seconds = 3 minutes	2) 360 seconds = 6 minutes
3) 240 seconds = 4 minutes	3) 600 seconds = 10 minutes
4) 300 seconds = 5 minutes	4) 350 seconds = 5 minutes 50 seconds
5) 360 seconds = 6 minutes	5) 270 seconds = 4 minutes 30 seconds ($4\frac{1}{2}$ minutes)
6) 90 seconds = 1 minutes 30 seconds ($1\frac{1}{2}$ minutes)	6) 400 seconds = 6 minutes 40 seconds

E4E:

Dan takes 153 seconds to skip around the playground. Tilly takes 2 minutes 23 seconds. Who is the quickest? Explain how you know.

Either convert Dan to minutes and seconds OR Tilly to seconds to explain this:

Dan 153 seconds = 2 minutes 33 seconds so Tilly is the quickest at 2 minutes 23 seconds.