Year 4 Maths

Time

What is time measured in?

Seconds

Minutes

Hours

Days

Weeks

Months

Years

Can you fill in the blanks?

- There are _____ seconds in a minute.
- There are _____ minutes in an hour.
- There are _____ hours in a day.
- There are _____ days in a week.
- There are _____ days in a year.
- There are _____ weeks in a year.

Can you fill in the blanks?

- There are __60_____ seconds in a minute.
- There are __60_____ minutes in an hour.
- There are __24_____ hours in a day.
- There are __7_____ days in a week.
- There are __365_____ days in a year.
- There are __52_____ weeks in a year.

Months of the Year

Not every month has the same number of days!

2020

-JANUARY-
-FEBRUARY-
-MARCH-
-APRIL-
-MAY-
-JUNE-
-JULY-
-AUGUST-
-SEPTEMBER-
-OCTOBER-
-NOVEMBER-
-DECEMBER-

30 Days Has September

30 Days has September,
April, June and November.
All the rest have 31,
Except for February, it's the one,
Which only has 28 days clear,
And 29 in each Leap Year.

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Here is a traditional rhyme to help you remember how many days are in each month – click the link for a rap!

What is a leap year?

A leap year is something very special that happens once every 4 years!

Watch this video for an explanation!

How many days are in your birthday month?
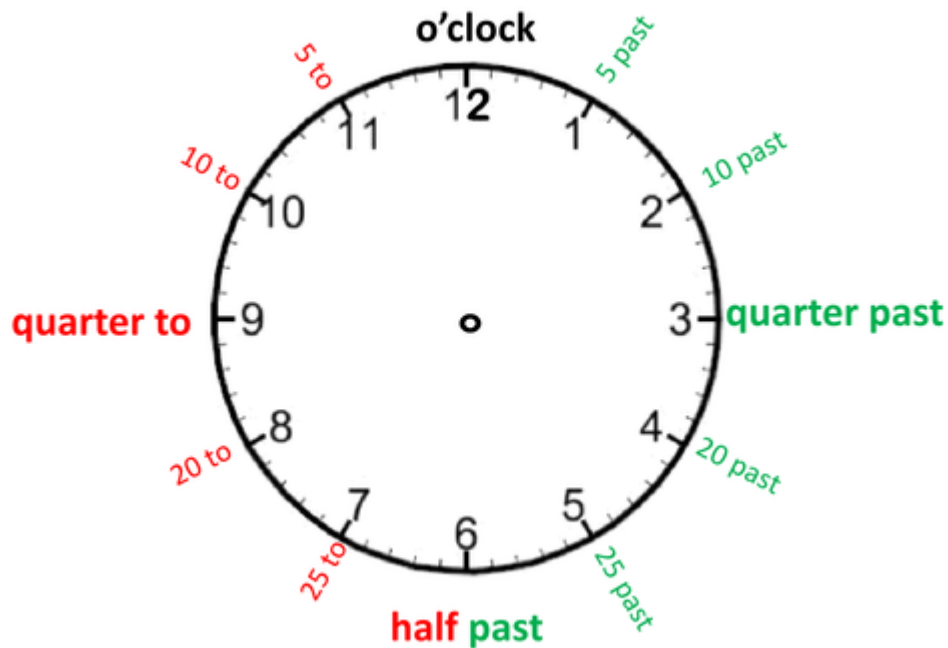
Use the rhyme to help you remember!

Miss Blake's birthday is in <u>January</u>, and there are <u>31</u> days in her birthday month.

My birthday is in _____, and there are _____ days in my birthday month.

On an analogue clock (like below), 1 whole rotation of the clock face is 60 minutes. That means there are 5 minutes between each number on the clock.

How many minutes pass between O'clock and quarter past the hour? _____

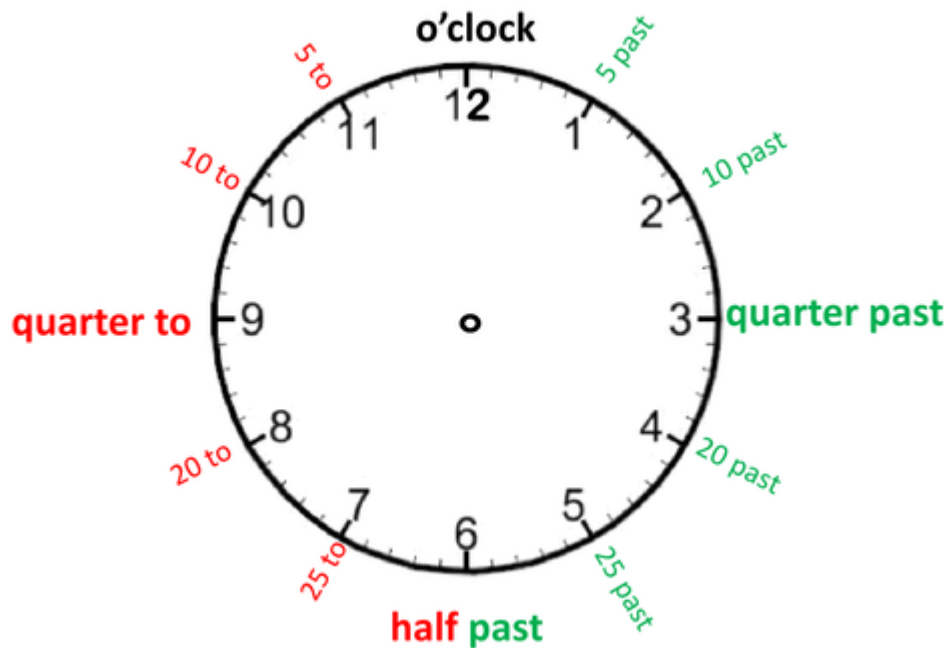How many minutes pass between O'clock and half past the hour? _____

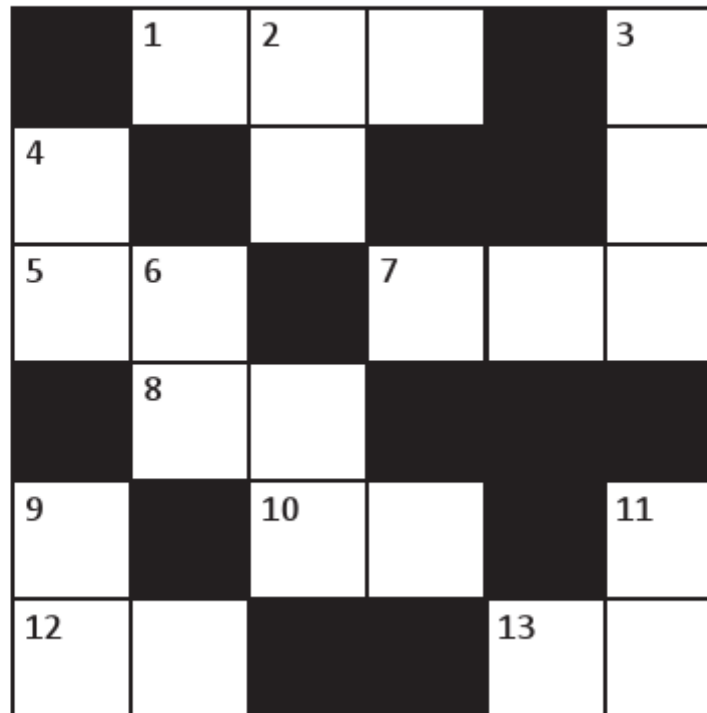How many minutes pass between O'clock and quarter to the hour? _____

How many minutes pass between 20 past and 20 to the hour? _____

On an analogue clock (like below), 1 whole rotation of the clock face is 60 minutes. That means there are 5 minutes between each number on the clock.

How many minutes pass between O'clock and quarter past the hour? _____15_____

How many minutes pass between O'clock and half past the hour? _____30_____

How many minutes pass between O'clock and quarter to the hour? _____45_____

How many minutes pass between 20 past and 20 to the hour? _____20_____

Have a go at this crossword using your time knowledge!

Use what you know about time relationships to complete this cross number puzzle:

Across

1 Days in a leap year

5 Weeks in a year

7 Hours in 10 days

8 Hours in $\frac{1}{2}$ day

10 Minutes in $\frac{3}{4}$ hour

12 Hours in 2 days

13 Minutes in 1 hour

Down

2 Seconds in 1 minute

3 Minutes in 1 hour and 40 minutes

4 Minutes in $\frac{1}{4}$ hour

6 Days in 3 weeks

9 Days in a fortnight

11 Minutes in $\frac{1}{2}$ hour

Have a go at this crossword using your time knowledge!

Use what you know about time relationships to complete this cross number puzzle:
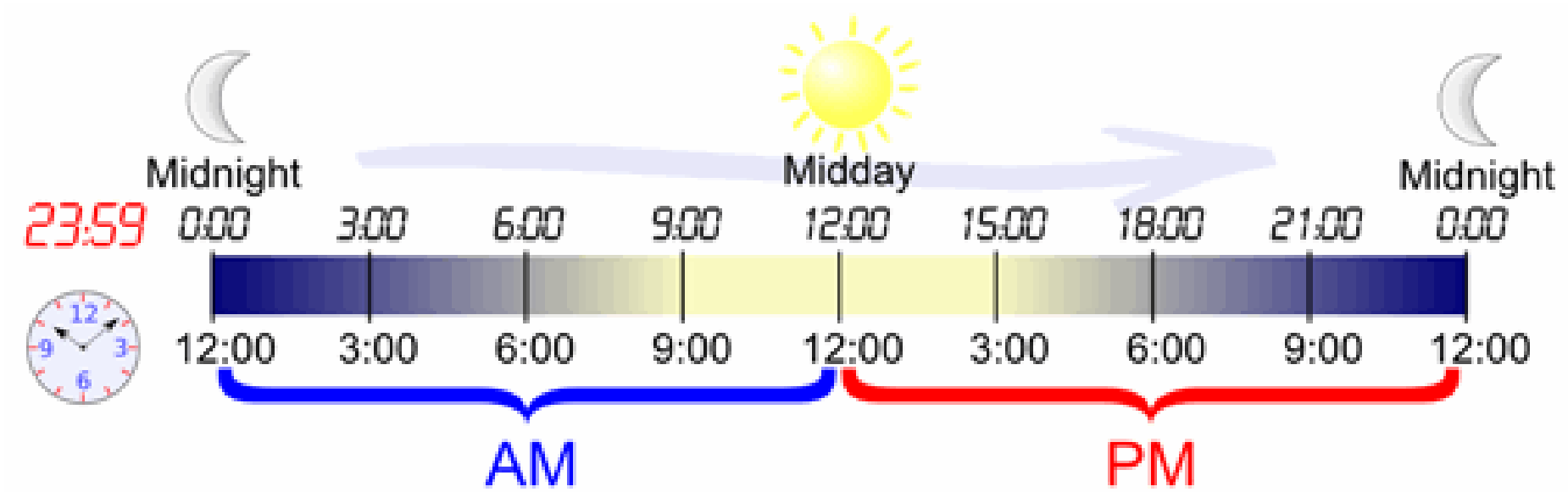
Across

1 Days in a leap year

5 Weeks in a year

7 Hours in 10 days

8 Hours in $\frac{1}{2}$ day

10 Minutes in $\frac{3}{4}$ hour

12 Hours in 2 days

13 Minutes in 1 hour

Down

2 Seconds in 1 minute

3 Minutes in 1 hour and 40 minutes

4 Minutes in $\frac{1}{4}$ hour

6 Days in 3 weeks

9 Days in a fortnight

11 Minutes in $\frac{1}{2}$ hour

Now have a go at Day 1's activities!

Day 2

Time can be told in the 12 hour and 24 hour clock.

When using the 12 hour clock, we distinguish between morning and night by using **am** and **pm.**

am = morning   pm = afternoon

Use <u>am</u> or <u>pm</u> to finish these sentences.

Tabby wakes Miss Blake up for her breakfast at 5.15_____.

I had my dinner at 5.15_____.

I leave for school at 8.20_____.

I brush my teeth and go to bed at 8.30_____.

Day 2

Use <u>am</u> or <u>pm</u> to finish these sentences.

Tabby wakes Miss Blake up for her breakfast at 5.15<u>_am_</u>.
(and what a pest she is!!!)

I had my dinner at 5.15<u>_pm_</u>.

I leave for school at 8.20<u>_am_</u>.

I brush my teeth and go to bed at 8.30<u>_pm_</u>.

24 hour time

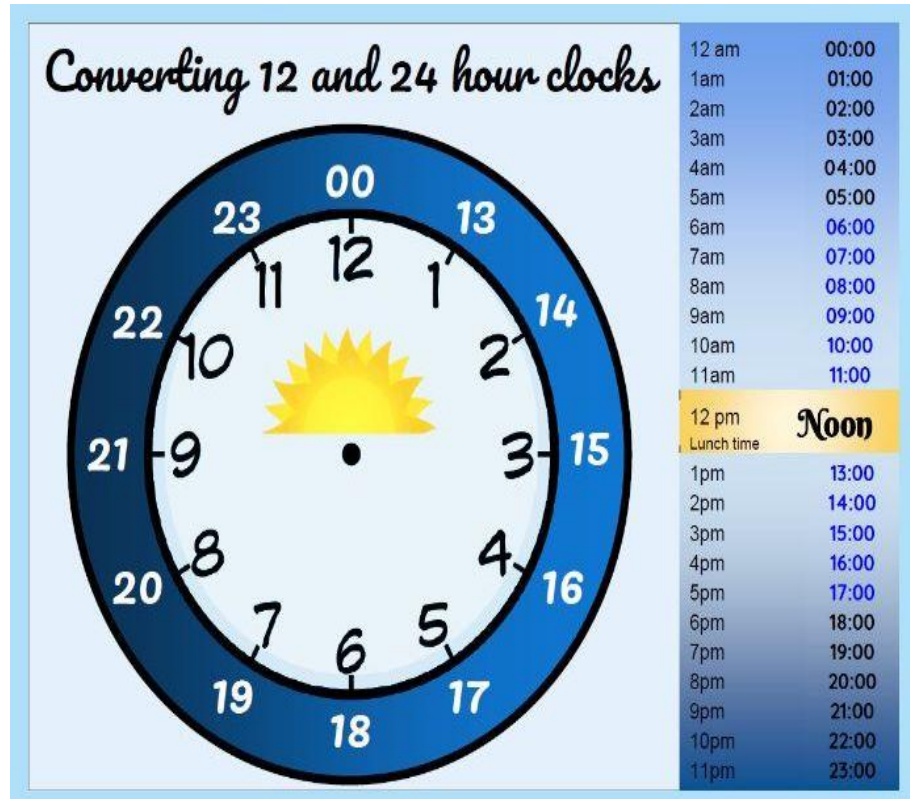When you use the 24 hour clock, you don't need to use am/pm.

Watch this video for an explanation of the 24 hour clock.

Now have a go at converting these times!

Converting 12 and 24 hour clocks

12 am	00:00
1am	01:00
2am	02:00
3am	03:00
4am	04:00
5am	05:00
6am	06:00
7am	07:00
8am	08:00
9am	09:00
10am	10:00
11am	11:00
12 pm Lunch time	**Noon**
1pm	13:00
2pm	14:00
3pm	15:00
4pm	16:00
5pm	17:00
6pm	18:00
7pm	19:00
8pm	20:00
9pm	21:00
10pm	22:00
11pm	23:00

1. **Convert the following 12-hour times to 24-hour time.**

12:00 p.m. = _____   10:30 p.m. = _____

3:20 a.m. = _____   12:05 a.m. = _____

7:50 p.m. = _____   5:25 p.m. = _____

2. **Convert the following 24-hour times to 12-hour time.**

1643 = _____   0230 = _____
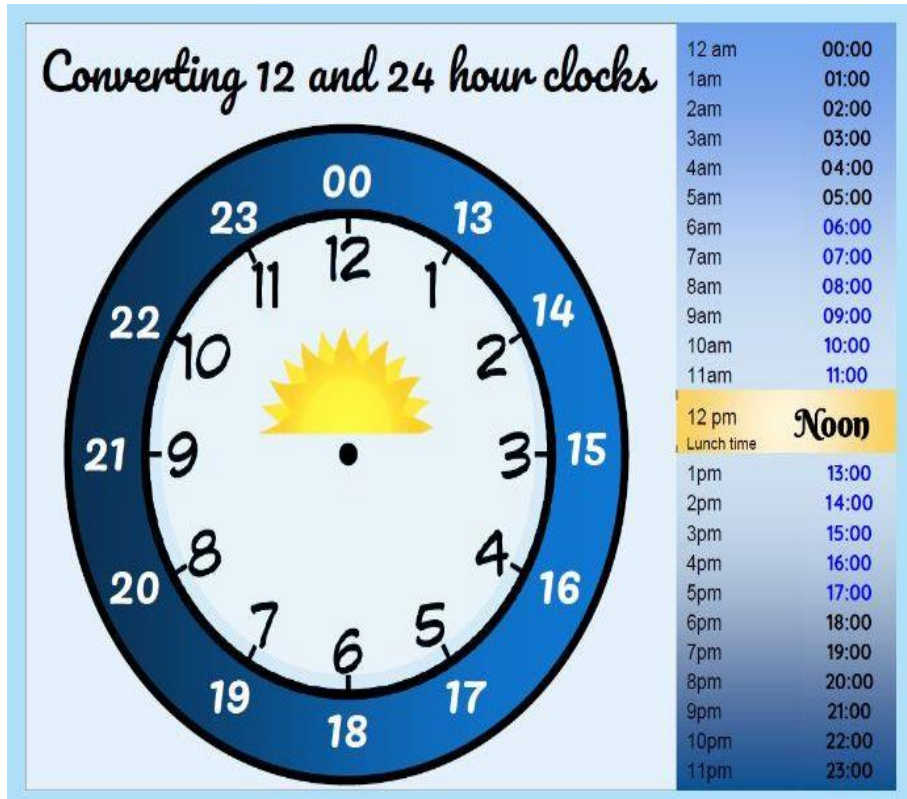
0520 = _____   0000 = _____

2040 = _____   2100 = _____

Now have a go at converting these times!

1. **Convert the following 12-hour times to 24-hour time.**

12:00 p.m. = __12:00__   10:30 p.m. = __22:30__

3:20 a.m. = __03:20__   12:05 a.m. = __00:05__

7:50 p.m. = __19:50__   5:25 p.m. = __17:25__

2. **Convert the following 24-hour times to 12-hour time.**

1643= __4:43pm__   0230 = __2:30am__

0520 = __5:20am__   0000 = __12:00am__

2040 = __8:40pm__   2100 = __9:00pm__

Now have a go at Day 2's questions!

Day 3

Answer the reasoning and problem solving questions!

Don't forget to explain your answers!