

Have a go at these arithmetic calculations.

1. $? = 8825 + 7061$

2. $90\ 000 - 90 =$

3. $8 \times 800 =$

4. $3612 \div 12 =$

Complete as many of these as you can in 3 minutes:

1. $600 \times \underline{\hspace{2cm}} = 30,000$

2. $\frac{4}{5} + \frac{1}{8} =$

3. Write the **two missing digits** to make this subtraction calculation correct.

$$\begin{array}{r} \begin{array}{|c|c|c|c|} \hline 5 & & 2 & 9 \\ \hline \end{array} \\ - \begin{array}{|c|c|c|c|} \hline 2 & 4 & 7 & \\ \hline \end{array} \\ \hline \begin{array}{|c|c|c|c|} \hline 3 & 1 & 5 & 6 \\ \hline \end{array} \\ \hline \end{array}$$

Learning Question:

Can I revise rounding any number to a required degree of accuracy?

Success Criteria:

- Recognise the place value of digits.
- Look at digit one column to the right.
- Remember the rules for rounding: 0,1,2,3,4 round down, 5,6,7,8,9 round up.

Vocabulary

Round

Whole number

Ones to Millions

Digit

Main:

What are the rules for rounding?

Numbers 0 – 4, round down

Numbers 5 and above (5 – 9) round up.

Place value grid:

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths	thousandths

Which column do we need to look at when rounding to the nearest hundred?

The nearest ten thousand?

The nearest tenth?

Answers on next page...

Place value grid:

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths	thousandths

Which column do we need to look at when rounding to the nearest hundred? **Tens column**

The nearest ten thousand? **Thousands column**

The nearest tenth? **Hundredths column**

- Round 13864 to the nearest 10, 100 and 1000.
- Look at the corresponding coloured arrow to see which digit you need to look at to decide if you should round up or down.

↓ ↓ ↓
13684

Nearest 10

13680
~~13690~~

Nearest 100

~~13600~~
13700

Nearest 1000

~~13000~~
14000

Try these:

Round to the nearest 10

33

Round up or
down?

Answer on next page...

Round to the nearest 10

33

Round up or
down?

Down – Round to 30
(the 3 ones are below 5 so round
down).

Round to the nearest 10

168

Round up or
down?

Answer on next page...

Round to the nearest 10

168

Round up or
down?

Up – Round to 170
(the 8 ones are above 5 so
round up).

Round to the nearest 100

220

Round up or
down?

Answer on next page...

Round to the nearest 100

220

Round up or
down?

Down – Round to 200
(the 2 tens are below 5 so
round down).

Round to the nearest 100

131

Round up or
down?

Answer on next page...

Round to the nearest 100

131

Round up or
down?

Down – Round to 100
(the 3 tens are below 5 so
round down).

Round to the nearest 1000

3682

Round up or
down?

Answer on next page...

Round to the nearest 1000

3682

Round up or
down?

Up – Round to 4000
(the 6 hundreds are above 5 so
round up).

Round to the nearest 1000

8504

Round up or
down?

Answer on next page...

Round to the nearest 1000

8504

Round up or
down?

Up – Round to 9000
(the 5 hundreds follow the 5 or
above rule, so round up).

Round to the nearest 1000

9595

Round up or
down?

Answer on next page...

Round to the nearest 1000

9595

Round up or
down?

Up – Round to 10000
(the 5 hundreds follow the 5 or
above rule, so round up).

Rounding decimals

- Round the following number to the nearest whole number

14.73

~~14~~
15

A whole number has no remainder – you need to look at your tenths to see if you round the whole number up or down. Follow the same rules: 7 is above 5 so round your whole number up to 15.

Rounding decimals

- Round the following number to one decimal place

14.73



To one decimal place means to the tenth. Look at the hundredths – 3 is below 5 so round down (or rather, keep the 7 the same, don't round up).

14.7 (1dp)

~~14.8~~

Rounding decimals

- What would the following numbers be if rounded to the **nearest whole number**?

0.78

99.89

4.8

5.3

13.25

0.04

Answers on next page...

Rounding decimals

- What would the following numbers be if rounded to the **nearest whole number**?

0.78 rounds to 1

99.89 rounds to 100

4.8 rounds to 5

5.3 rounds to 5

13.25 rounds to 13

0.04 rounds to 0

Rounding decimals

- What would the following numbers be if rounded to **one decimal place**?

12.45

0.09

1.33

3.67

7.53

199.95

Answers on next page...

Rounding decimals

- What would the following numbers be if rounded to **one decimal place**?

12.45 rounds to 12.5

0.09 rounds to 0.1

1.33 rounds to 1.3

3.67 rounds to 3.7

7.53 rounds to 7.5

199.95 rounds to 200

Have a go at these:

Round the following number to the nearest tenth:

0.286

Work out what is missing from this Sentence:

362.29 rounded to the nearest _____ is

362

Answers on next page...

Have a go at these:

Round the following number to the nearest tenth:

0.286 rounded to the nearest tenth is 0.3

Work out what is missing from this Sentence:

362.29 rounded to the nearest whole number is 362

Your activity:

Follow instructions on task sheet to
round numbers.

Plenary:

A business woman travels 255,572km in a car in a year. How far does she travel to the nearest 10,000km and to the nearest 100,000 km?

An ice cream company sells 334,678 lollies and 127,936 cones in a year. How many lollies and cones were sold altogether, to the nearest 10,000 and 100,000?