

Monday 14th September

LO: To round numbers to
10, 100 and 1000 -
Triangles

LO: To round numbers to
10, 100, 1000, 10 000

ROUND NUMBERS TO 10, 100 AND 1,000



<https://vimeo.com/454666928>

GET READY



Our favourite...!

<https://www.youtube.com/watch?v=3afU6JQG15I>

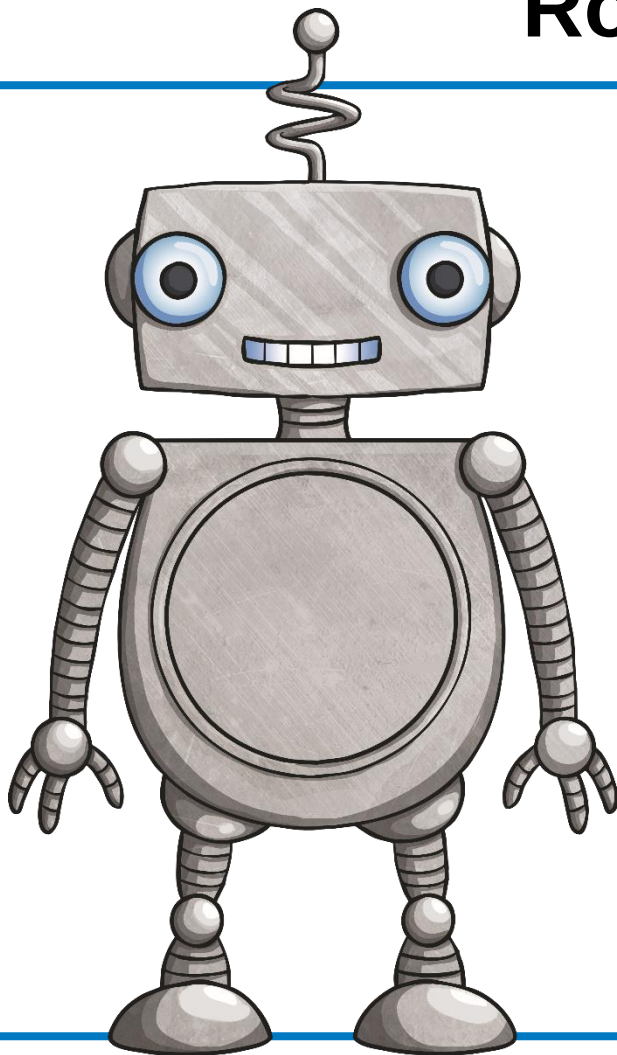
Sing along !



Crucial vocabulary this lesson...

round/rounding
estimate/estimating
approximate/approximating
to the nearest.../rounding off...
actual
whole numbers
place value
number line

Rounding



Rounding makes it easier
to talk about and
understand numbers.

We round numbers in
order to make numbers
simpler to work with, to
estimate answers or to
explain how near a
number is to another
number.

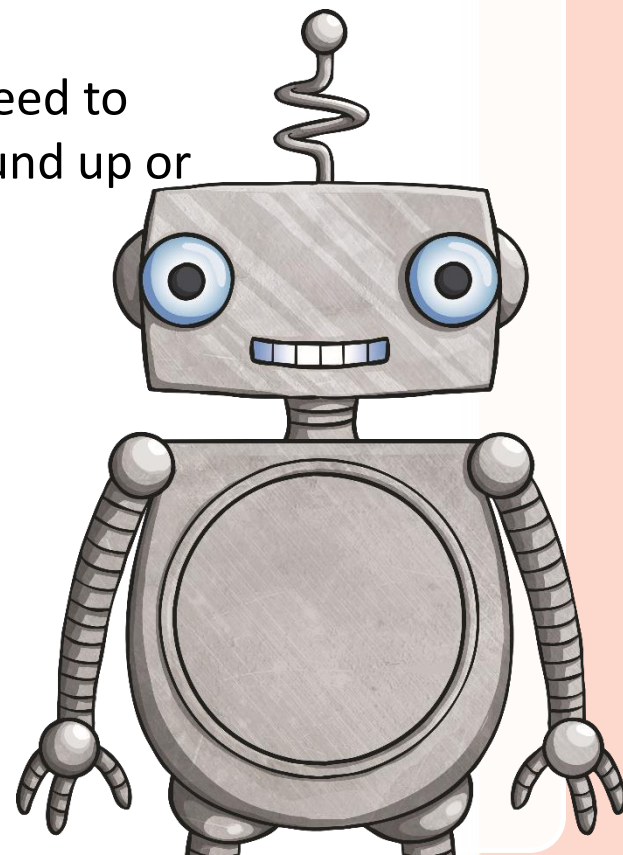
Rounding Accurately

We can round numbers to different degrees of accuracy. Sometimes, it is useful to round a number to the nearest 10. Other times we may round a number to the nearest 100, 1000, 10 000, 100 000 or 1 000 000!

In order to round to a given degree of accuracy, we need to know which digit to consider to tell us whether to round up or round down.

The rule for identifying the digit to consider is to look at the digit in the place before the value we are rounding to.

For example, if we want to round to the nearest 10, we will look at the number in the ones place. This is because ones are in the place before tens.

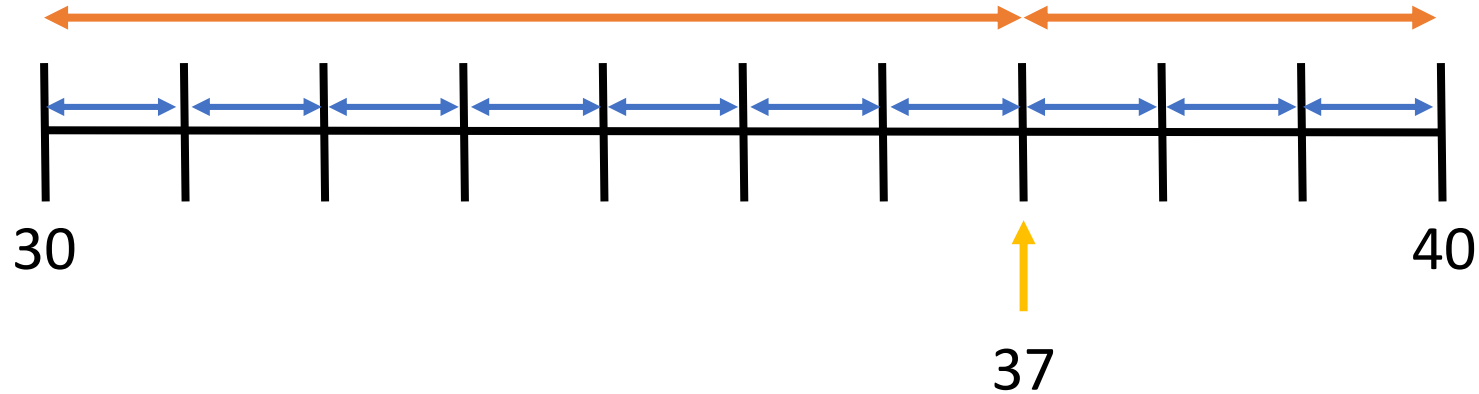


LET'S LEARN



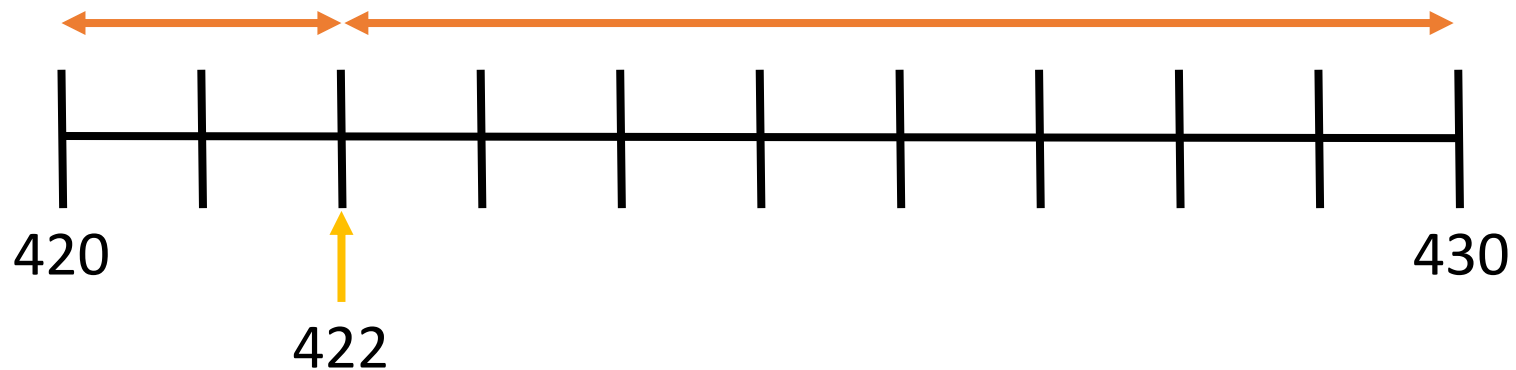
Round 37 to the nearest 10

40



Round 422 to the nearest 10

420



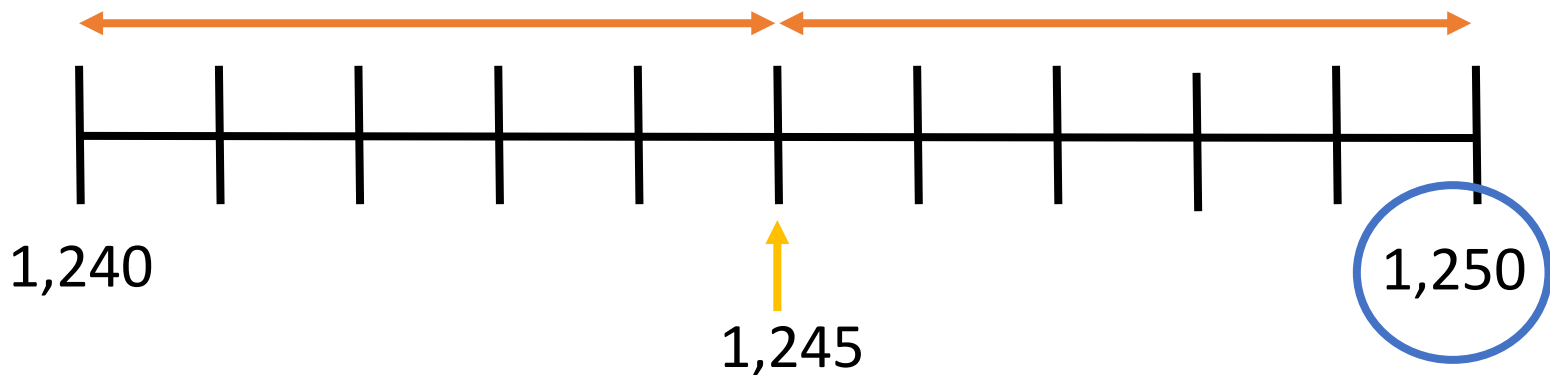
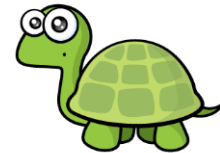
Have a think



Round 1,245 to the nearest 10

1,250

You can't round this number to the nearest 10 because the ones is a 5

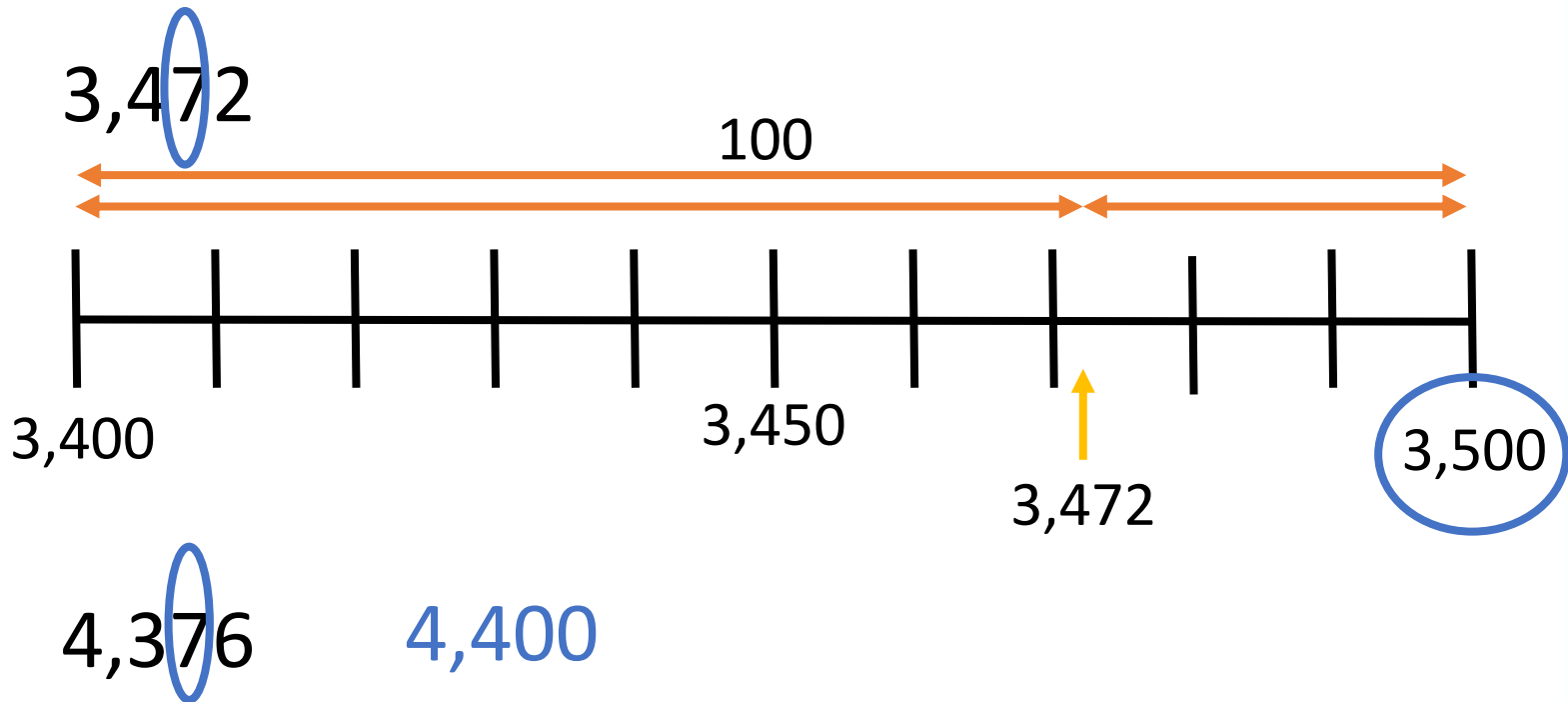


Over to you...

Have a think



Round these numbers to the nearest 100



ROUNDING RULES!

Find the number.

Look RIGHT next door.

5 or more?

Raise the Score!

4 or less?

Let it Rest!





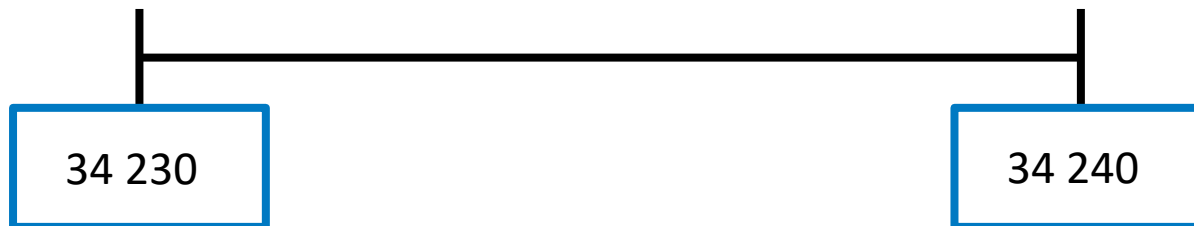
Rounding Accurately

Round 34 233 to the nearest 10.

To do this, we first of all identify the tens numbers either side of this number.

We then look at the digit in the place before the tens place.
In 34 233, the digit we need to consider is the 3 in the ones place.

We use this digit to decide whether to round up to 240,
or down to 230.





Rounding Accurately

Round 34 233 to the nearest 10.

If the digit is a 1, 2, 3 or 4, we round down.

If the digit is a 5, 6, 7, 8 or 9, we round up.

In 34 233, the digit we need to consider is a 3, so we round down.

34 233 rounded to the nearest 10 is 34 230.





Rounding Accurately

Now try this one:

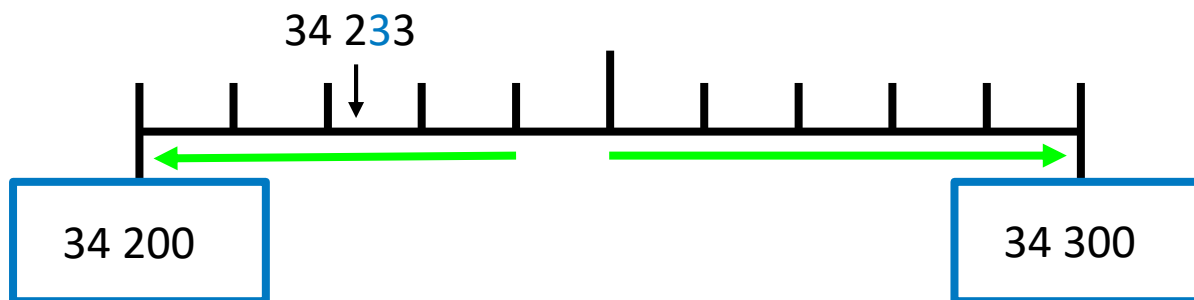
Round 34 233 to the nearest 100.

Identify the hundreds number either side of this number.

Look at the digit in the place before the hundreds place.

In 34 233, this digit is the 3 in the tens place.

Decide whether to round down to 34 200 or up to 34 300.



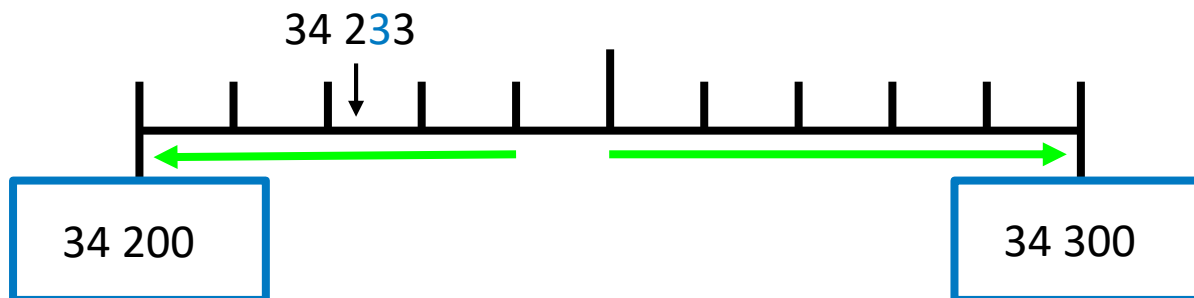


Rounding Accurately

Did you get it?

Round 34 233 to the nearest 100.

34 233 rounded to the nearest 100 is 34 200.



Over to you....

Hexagons- 5a- 8a sheet- Mrs Cooper & Mrs Day
Squares- 1a-4a sheet- Mrs Lund (out)

Triangles-independent
Ipad- BBC Bitesize link...

<https://www.bbc.co.uk/teach/skillswise/rounding-and-estimating/zv8qcqt>

Rounding rockets game

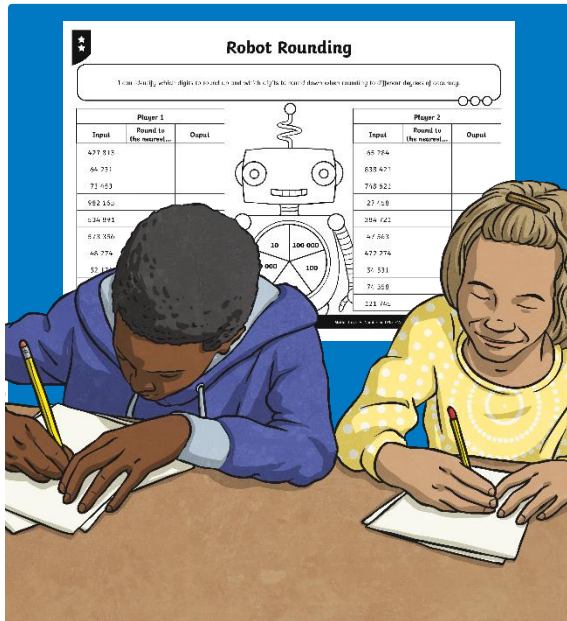
<https://www.topmarks.co.uk/maths-games/rocket-rounding>



Robot Rounding Activity

Use the dial on your Robot Rounding Activity Sheet to play a rounding game with your partner.

To use the dial, place a paper clip in the centre of the dial. Place the point of your pencil inside the paper clip, on the exact centre of the dial. Spin the paper clip around the point of your pencil to play!



The aim of the game is to get the most points. You get one point for every number you round correctly.

Look at the first number in the 'Input' column. Spin the robot's dial to find the degree of accuracy. Record this in the 'Round to the Nearest...' column. Then round the number to the required degree of accuracy. Record your answer in the 'Output' column.

Take turns to spin the dial and round each of the numbers in the 'Input' column.

1a. Match the numbers to the correct rounded number when rounding to the nearest 10,000.



1

a 630,000

2

205,990

b 330,000

3

Six hundred and twenty-seven thousand, two hundred and seventy-five

c 210,000



1b. Match the numbers to the correct rounded number when rounding to the nearest 100,000.



1

a 100,000

2

100,550

b 400,000

3

Five hundred and forty-nine thousand and twenty

c 500,000



2a. Which numbers round to 650,000 when rounding to the nearest 10,000?

649,995

654,900

655,750

644,805



2b. Which numbers round to 400,000 when rounding to the nearest 100,000?

398,850

451,000

445,800

349,005



3a. Tick the correct column to show whether the number rounds to 400,000 or 500,000.

Number	Round to 400,000	Round to 500,000
450,245		
395,205		
545,350		



3b. Tick the correct column to show whether the number rounds to 500,000 or 600,000.

Number	Round to 500,000	Round to 600,000
525,665		
618,250		
598,455		



4a. Round the number in words to the nearest:

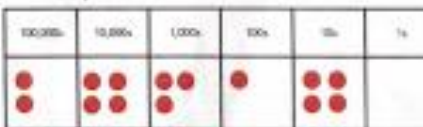
- 1,000
- 10,000
- 100,000

Six hundred and two thousand, six hundred and twenty three



4b. Round the number in the diagram to the nearest:

- 1,000
- 10,000
- 100,000



Octagons

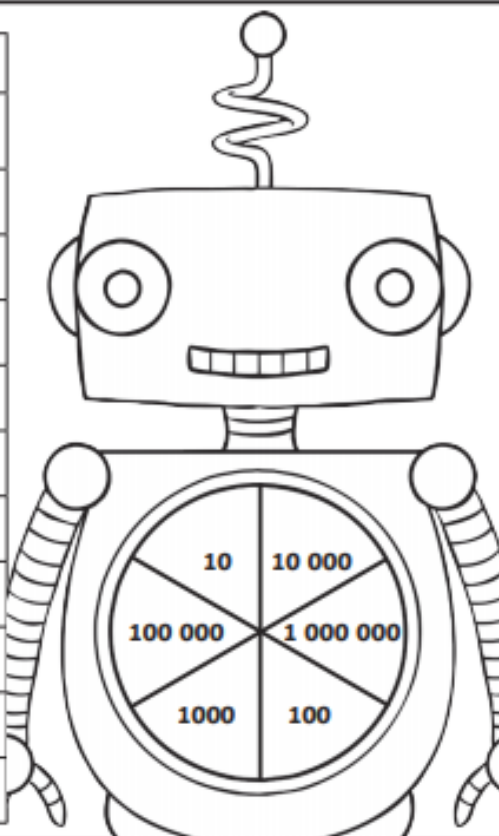


Robot Rounding

I can round numbers to a required degree of accuracy.



Player 1		
Input	Round to the nearest...	Output
427 813		
64 231		
73 453		
982 165		
534 891		
573 356		
48 274		
52 124		
31 465		
386 231		



Player 2		
Input	Round to the nearest...	Output
65 284		
838 421		
748 621		
27 458		
384 721		
47 563		
472 274		
54 531		
74 558		
121 745		

Tuesday 15th September

LO: To round numbers to
10, 100 and 1000 - Triangles

LO: To round numbers to
10, 100, 1000, 10 000
(problem solving)

Our favourite...!

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Sing along !

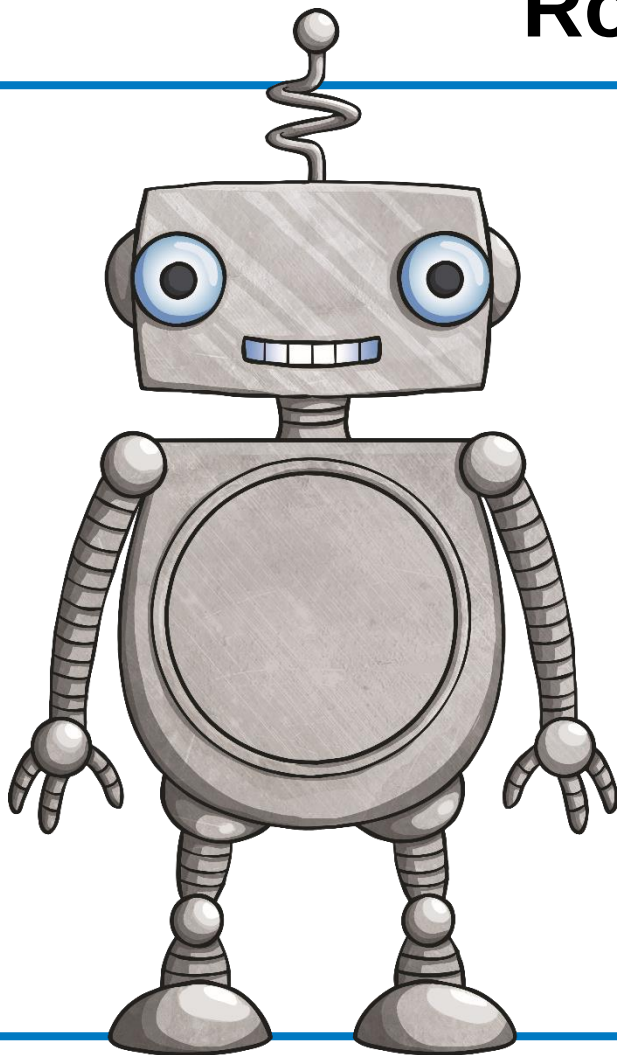


Day 2-Crucial vocabulary this lesson...

round/rounding
estimate/estimating
approximate/approximating
to the nearest.../rounding off...
actual
whole numbers
place value
number line

Explain to your partner three of the meanings of these words.

Rounding

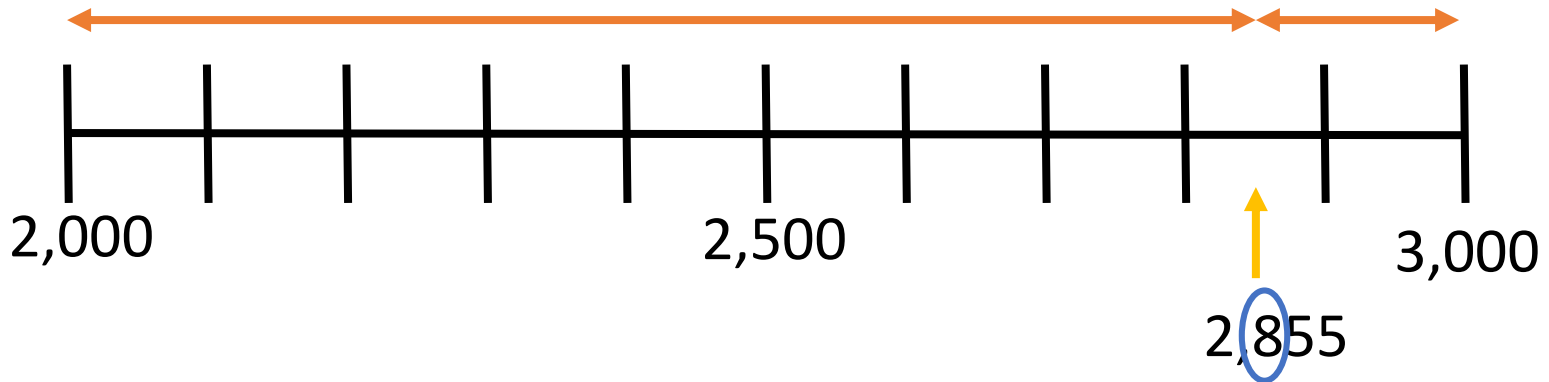


Rounding makes it easier to talk about and understand numbers.

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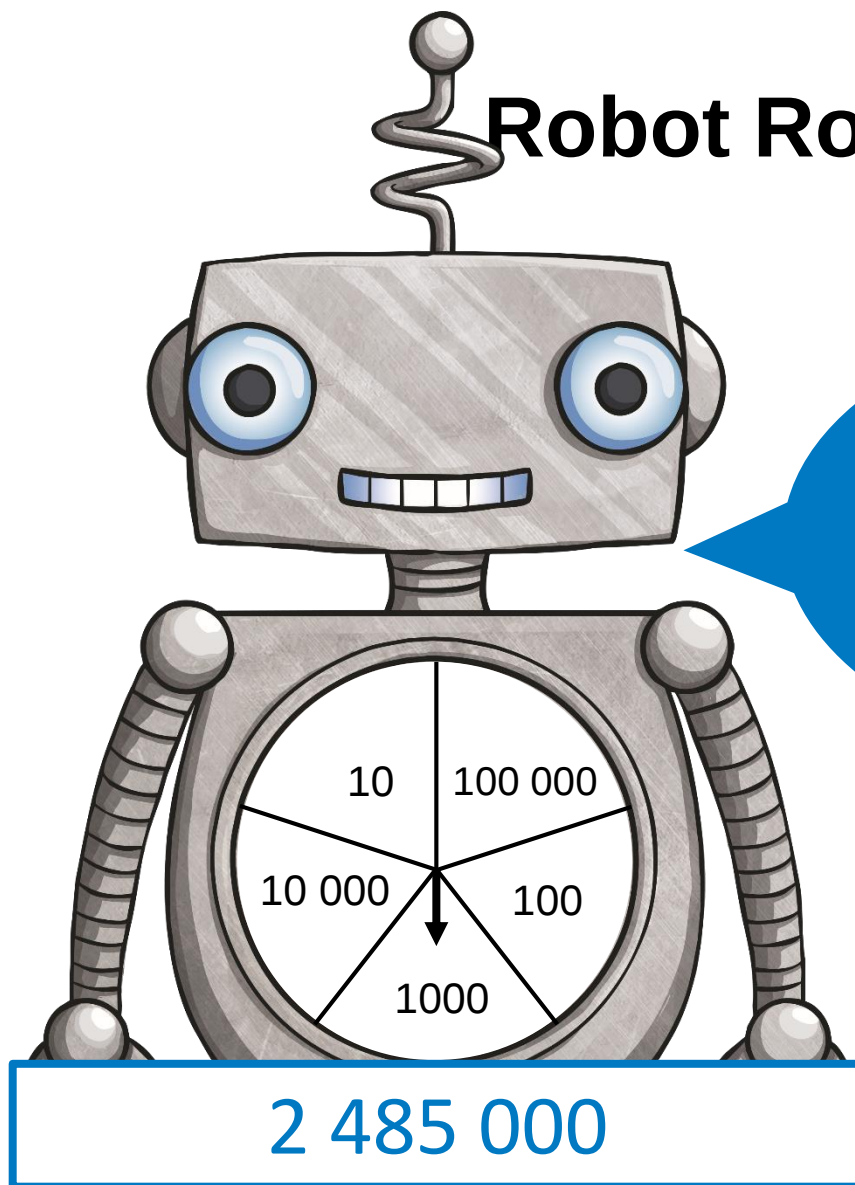
Revision

Round 2,855 to the nearest 1,000 3,000





Robot Rounding

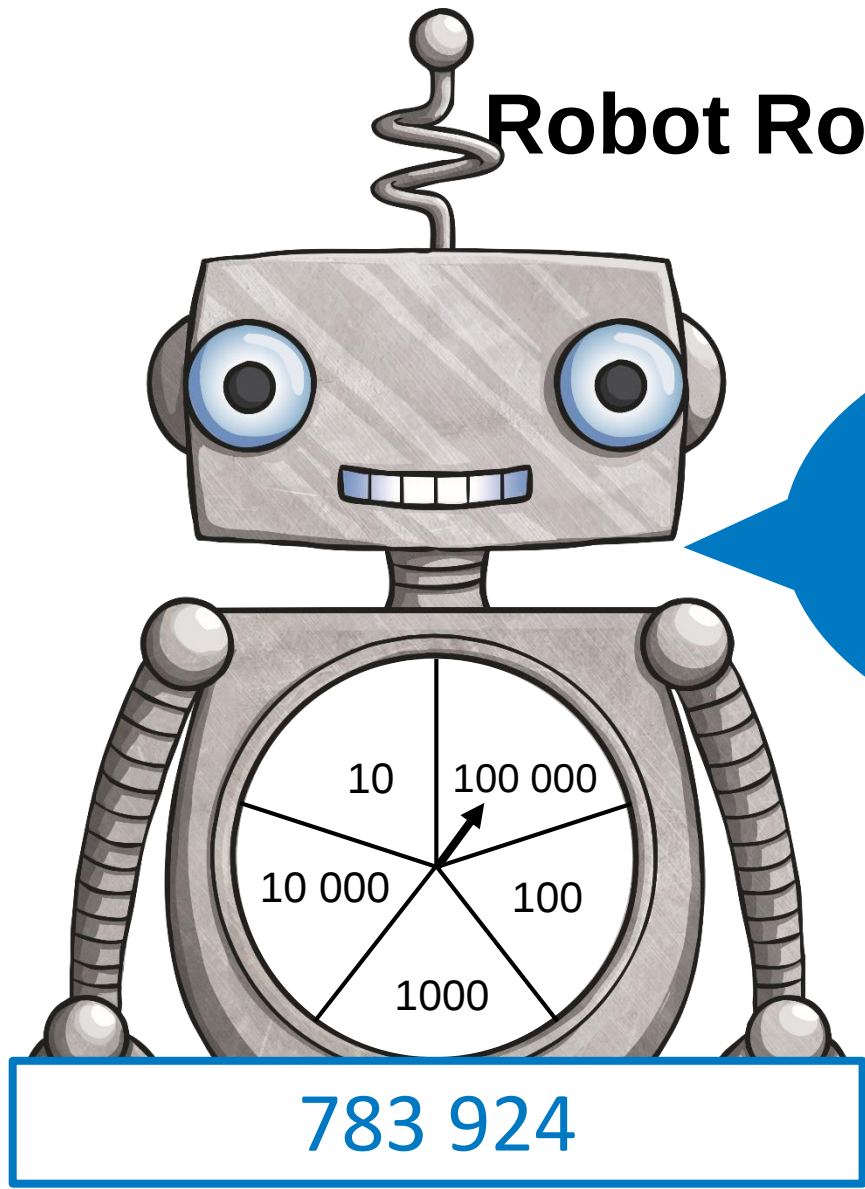


2 485 000

Click the robot to
reveal the answer!



Robot Rounding

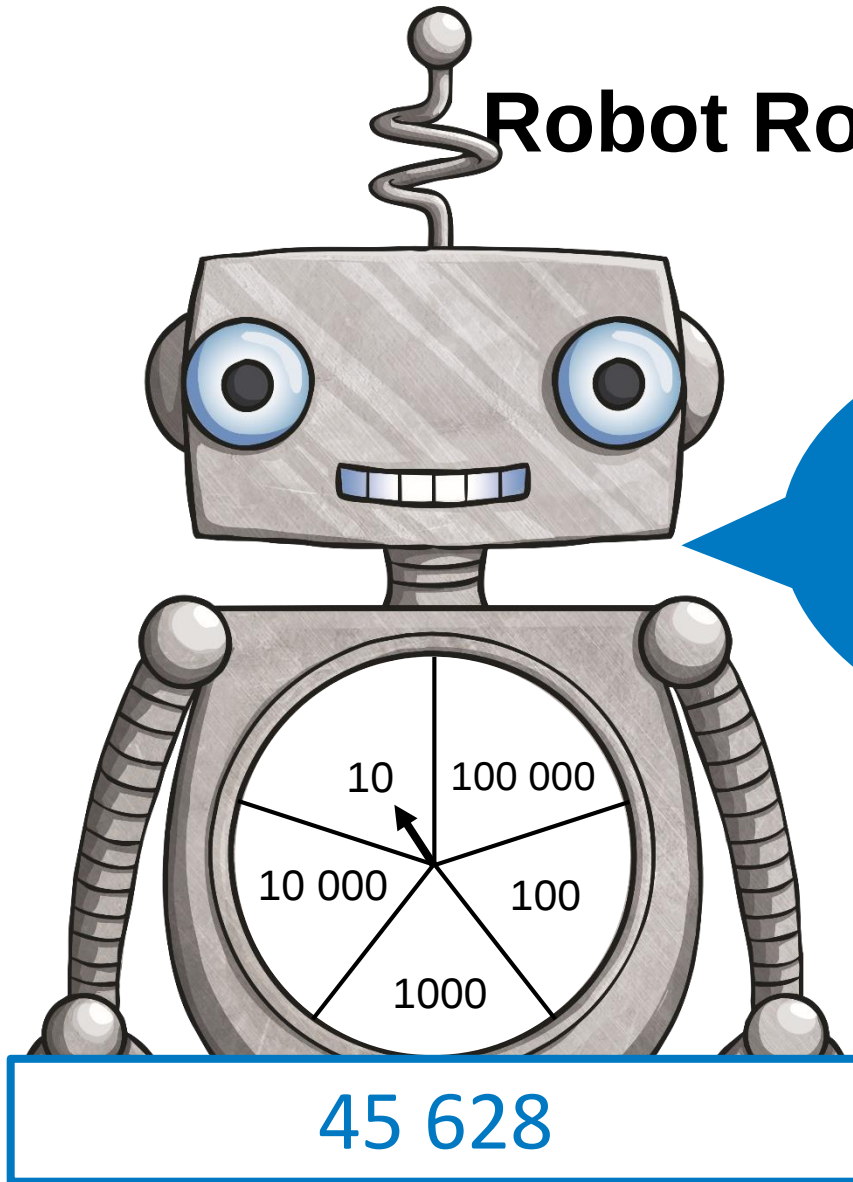


800 000

Click the robot to
reveal the answer!



Robot Rounding



45 630

Click the robot to
reveal the answer!

Talk task

True or False ?

Round to nearest 10, 100 and 1,000

When rounded to the nearest thousand,
hundred, ten or whole,
 999.9 will round to 1000

True

999.9 is closer to 1000 than 0

999.9 is closer to 1000 than 900

999.9 is closer to 1000 than 990

999.9 is closer to 1000 than 999

My number is 1,350 when rounded to the nearest 10



My number is 1,400 when rounded to the nearest 100

Rosie

Both numbers are whole numbers.

What is the greatest possible difference between the two numbers?

Have a think



Which numbers round to 31,000 when rounded to the nearest 1,000?

30,535
31,000

29,992
30,000

31,530
32,000

31,350
31,000

Over to you....

½ Hexagons (out)- Mrs Warham

½ Hexagons- Cinema problem then...

7a-9a Whiterose -Mrs Cooper

Squares – ques 1a-4a (from Mon)

ques 5-8 Whiterose

Octagons- Independent -7a-9a Whiterose

(Extension task- Miss Jones problem)

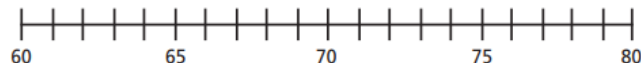
Triangles (out)- Mrs Lund

Triangles....

Rounding to 10, 100 and 1,000



1 Use the number line to help you complete the sentences.



63 rounds to to the nearest 10

74 rounds to to the nearest 10

67 rounds to to the nearest 10

78 rounds to to the nearest 10

3 Round each number to the nearest 100

a) 1,532

1,552

1,542

1,562

b) What do you notice about your answers in part a)?

4 Round the numbers to the correct values.

a) 743

b) 9,867

to the nearest 10 is

to the nearest 10 is

to the nearest 100 is

to the nearest 100 is

to the nearest 1,000 is

to the nearest 1,000 is

Cinema

2700 people visit a cinema in one day. About one third of the visitors are children. The rest are adults. The cost of the tickets are:

Adults £9.80

Children £5.40

Use rounding to estimate how much money the cinema took on that day.



5a. Match the numbers to the correct rounded number when rounding to the nearest 100,000.

100,000s	10,000s	1,000s	100s	10s	1s
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

a 1,300,000

2 1,357,993

b 200,000

3 One million, three hundred and thirty-four thousand, one hundred and seventeen

c 1,400,000



5b. Match the numbers to the correct rounded number when rounding to the nearest 100,000.

100,000s	10,000s	1,000s	100s	10s	1s
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

a 1,100,000

2 1,470,655

b 1,500,000

3 One million, and sixty-seven thousand, three hundred and thirty-four

c 100,000



6a. Which numbers round to 2,000,000 when rounding to the nearest 1,000,000?

2,565,705

1,625,900

2,449,750

1,655,805



6b. Which numbers round to 4,000,000 when rounding to the nearest 1,000,000?

3,712,805

4,465,715

4,125,445

3,449,530



7a. Tick the correct column to show whether the number rounds to 4,000,000 or 5,000,000.

Number	Round to 4,000,000	Round to 5,000,000
4,497,100		
4,059,900		
4,879,500		



7b. Tick the correct column to show whether the number rounds to 2,000,000 or 3,000,000.

Number	Round to 2,000,000	Round to 3,000,000
2,458,790		
3,405,830		
2,565,745		



8a. Round the number in words to the nearest:

- 10,000
- 100,000
- 1,000,000

Two million, seven hundred and five thousand, six hundred and fifty-four



8b. Round the number in the diagram to the nearest:

- 10,000
- 100,000
- 1,000,000

100,000s	10,000s	1,000s	100s	10s	1s
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●



7a. When rounded to the nearest ten million, which is the odd one out? Give reasons for your answer.

Nine million, two hundred and twenty thousand, five hundred and seventy-six

8,702,855

1,000,000s	100,000s	10,000s	1,000s	100s	10s	1s
9	2	2	5	7	6	0



8a. Work out which child has which number according to rounding facts when rounding numbers to the nearest 1,000,000.

9,505,250

8,102,059

8,826,810

Maria: My number rounds to 9,000,000



Dan: My number rounds to 8,000,000

Marcus: My number rounds to 10,000,000



9a. Jean-Luc is rounding numbers to the nearest ten million. He says:

I think that 7,809,755 rounded to the nearest ten million is 8,000,000.



Is Jean-Luc correct? Explain, giving reasons for your answer.

Wednesday 16th September

LO: To round numbers to 10, 100 and 1000 (problem solving) -
Triangles

LO: To solve problems involving rounding

LO: To round any number
(Squares)

Our favourite...!

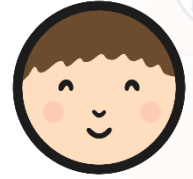
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Sing along !



Crucial vocabulary this lesson...

round/rounding
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whole numbers
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number line



Rounding Reminders

What are your top tips for rounding numbers?

Think about how to decide which digit to consider and how to decide whether to round up or down.

Write your rounding reminders down so that you remember what to do!

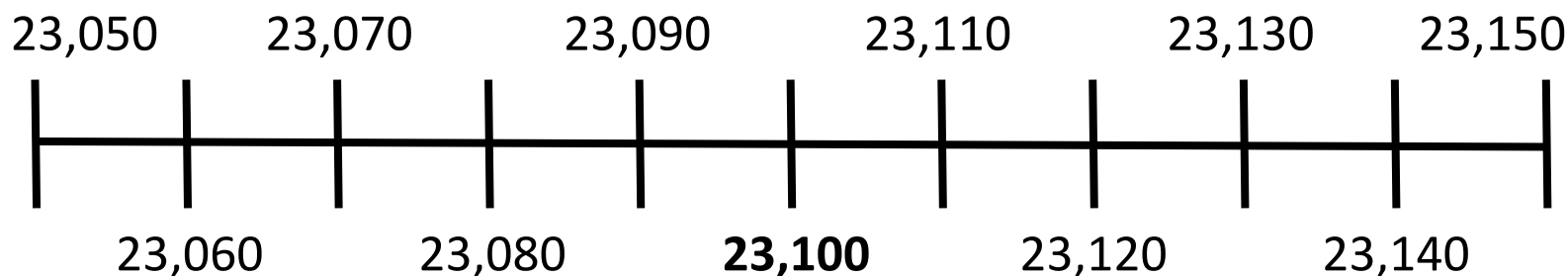


I'm thinking of an integer that is
23,100 when rounded to the
nearest 100



What is the smallest number Jack could be thinking of?

23,050



What is the greatest number Jack could be thinking of?

23,149

Have a think



Talk task

Whitney rounded 2,215,678 to the nearest million and wrote 2,215,000

Can you explain to Whitney what mistake she has made?

Thursday 16th September

LO: To round numbers to 10, 100 and 1000 (problem solving) -
Triangles

LO: To solve problems involving rounding

LO: To round any number
(Squares)

15,987 15,813 15,101 16,101

Tommy says, “My number rounds to 16,000 to the nearest 1,000”

Alex says, “My number has one hundred.”

Jack says, “ My number is 15,990 when rounded to the nearest 10”

Dora says, “My number is 15,000 when rounded to the nearest 1,000”

Can you work out which child has which card?

Rounding to 1000

Seventeen
thousand, five
hundred

Eighteen
thousand



- Work with a partner.
- Write a number (up to 7 digits) on a small whiteboard (hidden).
- Say the number to your partner who must round it to the nearest 1000. If they get the answer correct, then it is their turn to write a number.
 - If your partner guesses an incorrect answer, then you will get a point.
- Play to 10 points and then swap partners.
- If your partner is finding it difficult, perhaps show them the numbers for a few seconds.



Rounding to 500

- For each of these numbers, write five numbers that can be rounded to it when rounded to the nearest 500.

2000

3500

32 000

56 500

Between 1750
and 2249

Between 3250
and 3749

Between
31 750 and 32
249

Between
56 250 and 56
249

- Explain the range of answers for 100 000.

Any number between 99 750 and 100 249

Hide
Answers

Rounding to 10 000

- Write down the numbers which, when rounded to the nearest ten thousand, are rounded to 120 000:

119 672

126 629

125 501

123 002

119 503

125 919

129 499

112 499

117 501

122 120

- Create your own set of numbers for a partner.

Hide
Answers

Over to you....

Hexagons(out)- Mrs Warham & Mrs Lund -
Problem solving

Squares- Independent -Whiterose sheet

Octagons- Mrs Day – Problem solving

Triangles- Mrs Cooper
Whiterose questions 6-9

A number rounded to the nearest thousand is 93000.

What is the largest number possible that it could be?

What is the smallest number it could be?

A number rounded to the nearest thousand is 76000.

What is the largest number possible that it could be?

What is the smallest number it could be?

Write five numbers that can be rounded to it when
rounded to the nearest 100.

5000

Explain the range of answers for 500, 000.

Reasoning 2

Nicolas is rounding numbers to the nearest million. He says:

I think that 7,450,980 rounded to the nearest million is 7,500,000.



Is Nicolas correct? Explain, giving reasons for your answer.
He is incorrect because...

Write five numbers that can be rounded to it when
rounded to the nearest 100.

34,000

- Miss Jones, the teacher has four cards.
On each card is a number:

42350	43685
56995	56943

She gives one card to each pupil. They each look at them and say a clue.

Alfie says, "My number is 57000 when rounded to the nearest 10."

Ben says "My number has exactly 3 hundreds in it."

Caleb says "My number is 44000 when rounded to the nearest thousand".

Patrick says "My number is exactly 100 less than 57043."

Can you solve who had which card and explain how you know this?

- Claire is given the calculation below to estimate an answer to
 $1912 + 1888 =$
 Claire says "I will just double 1900 which is 3800".
 Why has Claire done that? Would you do anything differently?

Recap time...useful websites

<https://vimeo.com/454666928>

<https://www.bbc.co.uk/teach/skillswise/rounding-and-estimating/zv8qcqt>

<https://www.youtube.com/watch?v=n1VBMphaRPo>

Friday 17th September

LO: To round decimals (1dp)

LO: To round decimals
(2dp)



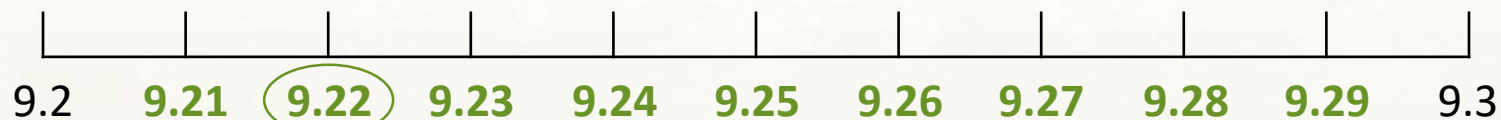
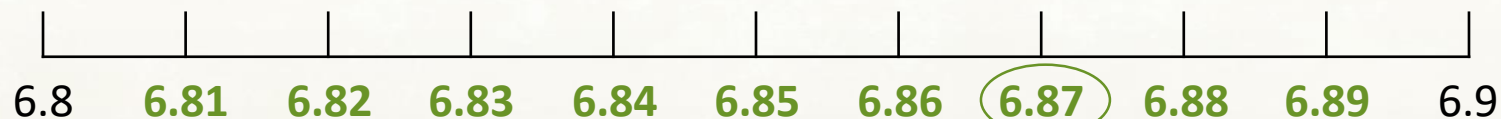
a) $7.8 \rightarrow 8$



b) $3.43 \rightarrow 3$



Round the numbers to the nearest whole number. Use the number lines to help you.

a) $9.22 \rightarrow 9.2$ b) $6.87 \rightarrow 6.9$ 

Round the numbers to the nearest tenth. Use the number lines to help you.

Petra is thinking of a number with tenths and hundredths.
When it is rounded to the nearest whole number, the number is 15.
Rounded to the nearest tenth it is 14.6.

**Petra**

14.62

15.12

14.51

14.59

14.66

Which of these could
be Petra's number?

Can you think of a different
number which could be
Petra's number?

14.60 14.61 14.63 14.64
14.55 14.56 14.57 14.58



Here are the numbers
I made:

When rounded to the nearest whole number, I round to 46.	
When rounded to the nearest tenth, I round to 7.9.	
When rounded to the nearest whole number, I round to 3.	

Use the digits **2, 3, 4, 5, 6, 7, 8** and **9** once only to make numbers with at least one decimal place.

What numbers
did you make?

Nearest Whole Number

- Which of the following numbers will round to 4, when rounded to the nearest whole number?

3.5

4.5

3.98

3.59

3.49

4.01

4.49

Choose a whole number and write four decimal numbers. Ask a partner to select the decimal numbers which would round to the chosen whole number when rounded to the nearest whole number.

Hide
Answers

True or False?

- 45.67 rounded to the nearest tenth is 45.6.
- Explain your answer.

“I know that this statement is —
because...”

Over to you...

Mrs Lund- Triangles- Revise PP (Class web page) then answer questions

Hexagons

An Amazing Fact a Day

Frisbee Throwing

The world record for throwing and catching a flying disc is 263.2 metres.

Here are some other Frisbee throwing records for men and women.

Round each throw to one decimal place.



Men's World Records

Event	Distance	Distance rounded to one decimal place
Men (55 and older):	107.11m	
Men (45 and older):	167.04m	
Men (35 and older):	205.67m	
Boys (14 and younger):	178.9m	
Boys (13 and younger):	121.0m	
Boys (12 and younger):	101.87m	
Boys (9 and younger):	47.14 m	
Boys (8 and younger):	28.95 m	

Squares-



Mathletics

I can round decimal numbers to a required degree of accuracy.



A sports club held an athletics competition. There were several events with different age categories for each event.

Can you round the lengths to the different degrees of accuracy?

Event and Category	Length	Round to the nearest whole number	Round to the nearest tenth
Long jump: Under 11	4.25m		
Long jump: Under 16	3.97m		
High jump: Under 11	0.93m		
High jump: Under 16	0.86m		
Pole Vault: Under 11	2.11m		

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Squares-

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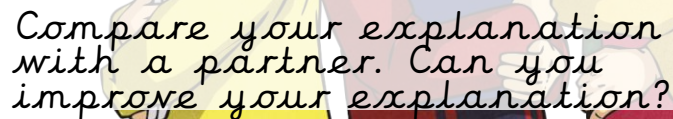
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Boys (12 and younger):	101.87m	
Boys (9 and younger):	47.14 m	
Boys (8 and younger):	28.95 m	

Explain how to round 2.15 to the nearest tenth.



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Extraordinaries

One Decimal Place

Write five decimal numbers that will round to the given number when rounded to the nearest tenth:

3.6

7.8

12.1

16

20.8

16.9

Show
Answers

Extraordinaries

One Decimal Place

Write five decimal numbers that will round to the given number when rounded to the nearest tenth:

3.6

7.8

12.1

16

20.8

16.9

Show
Answers

Extraordinary

One Decimal Place

- Write five decimal numbers that will round to the given number when rounded to the nearest tenth:

- 3.6
3.56, 3.58, 3.59, 3.61, 3.64 (3.55 – 3.649)

- 7.8
7.75, 7.77, 7.79, 7.82, 7.84 (7.75 – 7.849)

- 12.1
12.05, 12.07, 12.08, 12.11, 12.13 (12.05 – 12.149)

- 16
15.95, 15.96, 15.98, 16.02, 16.03 (15.95 – 16.049)

- 20.8
20.75, 20.76, 20.78, 20.81, 20.83 (20.75 – 20.849)

- 16.9
16.87, 16.88, 16.89, 16.91, 16.94 (16.85 – 16.949)

Hide
Answers

Round the following numbers to the nearest whole.

1. 89.3 _____
2. 45.6 _____
3. 14.7 _____
4. 15.89 _____
5. 281.88 _____
6. 38.9 _____

Round the following numbers to the nearest tenth.

7. 893.89 _____
8. 38.99 _____
9. 84.38 _____
10. 283.01 _____
11. 39.218 _____
12. 44.893 _____

Round the following numbers to the nearest hundredth.

13. 34.762 _____
14. 891.028 _____
15. 43.991 _____
16. 45.009 _____
17. 182.108 _____
18. 2.073 _____

Write two decimal numbers that would round to 0.4

19. _____
20. _____

Round the following numbers to the nearest whole.

1. 89.3 _____
2. 45.6 _____
3. 14.7 _____
4. 15.89 _____
5. 281.88 _____
6. 38.9 _____

Round the following numbers to the nearest tenth.

7. 893.89 _____
8. 38.99 _____
9. 84.38 _____
10. 283.01 _____
11. 39.218 _____
12. 44.893 _____

Round the following numbers to the nearest hundredth.

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14. 891.028 _____
15. 43.991 _____
16. 45.009 _____
17. 182.108 _____
18. 2.073 _____

Write two decimal numbers that would round to 0.4

19. _____
20. _____

Round the following numbers to the nearest whole.

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2. 45.6 _____
3. 14.7 _____
4. 15.89 _____
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Round the following numbers to the nearest hundredth.

13. 34.762 _____
14. 891.028 _____
15. 43.991 _____
16. 45.009 _____
17. 182.108 _____
18. 2.073 _____

Write two decimal numbers that would round to 0.4

19. _____
20. _____

Round to the 1 decimal place

1. 0.9	1. 0.9	1. 0.9	1. 0.9	1. 0.9	1. 0.9	1. 0.9
2. 13.24	2. 13.24	2. 13.24	2. 13.24	2. 13.24	2. 13.24	2. 13.24
3. 21.098	3. 21.098	3. 21.098	3. 21.098	3. 21.098	3. 21.098	3. 21.098
4. 15.55	4. 15.55	4. 15.55	4. 15.55	4. 15.55	4. 15.55	4. 15.55
5. 87.4	5. 87.4	5. 87.4	5. 87.4	5. 87.4	5. 87.4	5. 87.4
6. 63.8	6. 63.8	6. 63.8	6. 63.8	6. 63.8	6. 63.8	6. 63.8
7. 67.15	7. 67.15	7. 67.15	7. 67.15	7. 67.15	7. 67.15	7. 67.15
8. 26.459	8. 26.459	8. 26.459	8. 26.459	8. 26.459	8. 26.459	8. 26.459
9. 13.89	9. 13.89	9. 13.89	9. 13.89	9. 13.89	9. 13.89	9. 13.89
10. 15.994	10. 15.994	10. 15.994	10. 15.994	10. 15.994	10. 15.994	10. 15.994

Round to the 2 decimal places

1. 0.9	1. 0.9	1. 0.9	1. 0.9	1. 0.9	1. 0.9	1. 0.9
2. 13.24	2. 13.24	2. 13.24	2. 13.24	2. 13.24	2. 13.24	2. 13.24
3. 21.098	3. 21.098	3. 21.098	3. 21.098	3. 21.098	3. 21.098	3. 21.098
4. 15.55	4. 15.55	4. 15.55	4. 15.55	4. 15.55	4. 15.55	4. 15.55
5. 87.4	5. 87.4	5. 87.4	5. 87.4	5. 87.4	5. 87.4	5. 87.4
6. 63.8	6. 63.8	6. 63.8	6. 63.8	6. 63.8	6. 63.8	6. 63.8
7. 67.15	7. 67.15	7. 67.15	7. 67.15	7. 67.15	7. 67.15	7. 67.15
8. 26.459	8. 26.459	8. 26.459	8. 26.459	8. 26.459	8. 26.459	8. 26.459
9. 13.89	9. 13.89	9. 13.89	9. 13.89	9. 13.89	9. 13.89	9. 13.89
10. 15.994	10. 15.994	10. 15.994	10. 15.994	10. 15.994	10. 15.994	10. 15.994

Round each decimal to the nearest whole number

Decimal	Whole number
18.5	
34.2	
43.3	
21.9	
76.4	
55.6	
77.8	
64.9	
67.3	

What is the whole number?	How many tenths?	How many hundredths?
65.76		
32.10		
43.78		
56.87		
87.65		
32.09		
76.56		
98.43		