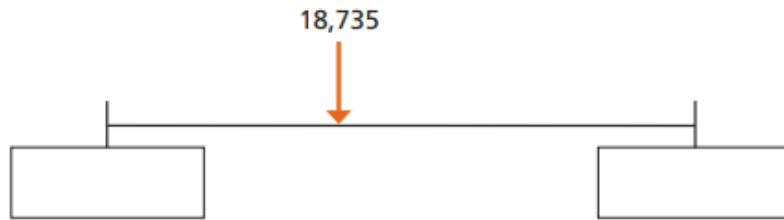


Year 8 Core – Number sense Questions

1.



a) Label the two multiples of 100 that 18,735 lies between.

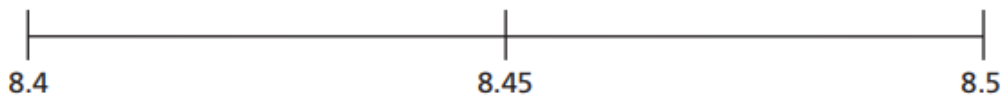
b) Round 18,735 to the nearest 100

Round 18,735 to the nearest 1,000

Round 18,735 to the nearest 10

2.

a) Draw an arrow to estimate the position of the number 8.416 on the number line.



b) Round 8.416 to 1 decimal place.

c) Round these numbers to 1 decimal place.

8.47

8.4719

3.

Teddy is working out 37×68



I'm going to round both numbers to 1 significant figure to get an estimate first.

a) Complete Teddy's workings.

37 to 1 significant figure =

68 to 1 significant figure =

So $37 \times 68 \approx$ \times $=$

4.

Evaluate the expressions, showing each step in your calculation.

a) $150 - 3 \times 5^2 + 11$

c) $150 - 3 \times (5^2 + 11)$

5.

Kim's shopping bill totals £37.23

She pays with a £50 note.

How much change will she receive?

6.

Write $>$, $<$ or $=$ to complete the statements.

a) 12 cm ○ 120 mm

c) 300 m ○ 3,000 cm

b) 4 m ○ 40 cm

d) 0.6 m ○ 600 mm

7.

Convert

6 kg

8,000 g

9,300 ml

 g

 kg

 litres

8.

Here is part of a calendar for 2021.

March 2021						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
	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			

a) What is the date of the third Sunday in March 2021? _____

b) How many Wednesdays will there be in March 2021? _____

c) What is the date of the first Saturday in April 2021? _____

d) What day of the week is 26 February 2021? _____

Year 8 Higher - Number sense Questions

1. Given that $x = 4.75$, $y = 2.13$ and $z = 0.0025$, work out the values of the expressions. Give your answers to 1 significant figure.

a) xy c) $\frac{x}{z}$

2. Complete the table.

Number	Rounded to 1 decimal place	Rounded to 2 decimal places	Rounded to 3 decimal places
23.541982			
$\frac{7}{12}$			
π			

3. Work out estimates for the answers to the calculations.

a) $\frac{47 \times 29}{209}$

c) $\frac{193^2}{9.23 - 4.812}$

e) $\frac{3,175 + 6,842}{2.2 \times 4.9}$

4. Aisha goes shopping with £20
She spends £4 on a book and buys 5 magazines each costing £3
Tick the calculations that show how much money she has left in pounds.

$20 - 4 + 5 \times 3$

$20 - (4 + 5) \times 3$

$20 - (4 + 5 \times 3)$

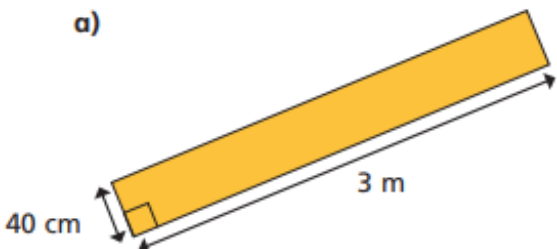
$20 - 4 - 5 \times 3$

$20 - 5 \times 3 + 4$

$20 - (5 \times 3 + 4)$

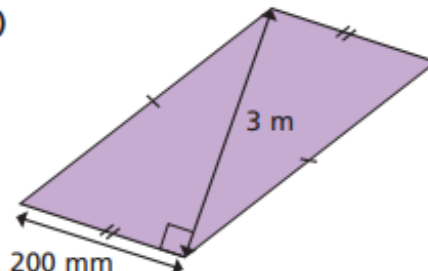
5. Find the area of each shape. Give your answers in cm^2

a)



cm^2

d)



cm^2