



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 4 PIM – ROUNDING DECIMALS

Fluency 1

FIRST

1.7 falls between **1** and **2** but is closer to **2** on the number line.

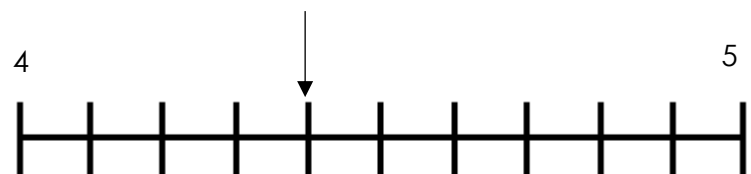
1.7 rounded to the nearest whole number is **2**.

NOW



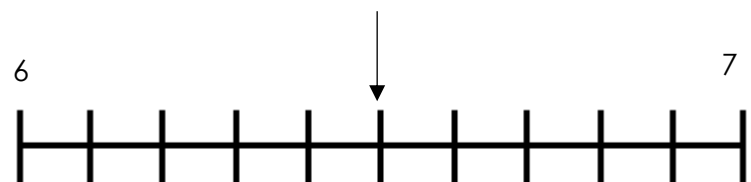
9.2 falls between **9** and **10** but is closer to **9** on the number line.

9.2 rounded to the nearest whole number is **10**.



4.4 falls between **4** and **5** but is closer to **4** on the number line.

4.4 rounded to the nearest whole number is **4**.



6.5 falls between **6** and **7** but as it is in the middle, it rounds up to **7**.

6.5 rounded to the nearest whole number is **7**.



Fluency 2

The dimensions are:

height = 21cm, width = 15cm (to the nearest cm)

Fluency 3

Answers will vary and may include:

3.1, 3.2, 3.3 and 3.4

11.5, 11.6, 11.7, 11.8, 11.9

3.5, 3.6, 3.7, 3.8, 3.9 (4) 4.1, 4.2, 4.3, 4.4

Reasoning 1

Modelled DAB Reasoning Responses

D – I disagree with Anita.

A – A bigger length does not always round to a bigger whole number.

B – 5.8cm will round up to 6 and 6.4 will also round down to 6.

5.8 is between 5 and 6 but is closer to 6. 6.4 is between 6 and 7 but is closer to 6.

Reasoning 2

Modelled DAB Reasoning Response

D – Jane has made a mistake.

A – There are more numbers that will round to five as the nearest whole number.

B – Jane has forgotten that numbers round down as well as up so 5.1, 5.2, 5.3 and 5.4 also round to 5.



Reasoning 3

Modelled DAB Reasoning Response

D – False

A – There are not more even one placed decimals that round up to the nearest whole number than down, the same number do.

B – For example, 4.6 and 4.8 round up to 5 and 5.2 and 5.4 also round down to 5.

Download our 'DAB' posters to support reasoning in your classroom:

<https://www.deepeningunderstanding.co.uk/product/dab-reasoning-posters/>

Problem Solving 1

1 and 1, 1 and 3 round to 1

1 and 5 rounds to 2

3 and 1, 3 and 3 rounds to 3

3 and 5 rounds to 4

5 and 1, 5 and 3 round to 5

5 and 5 rounds to 6

