

Topic Check In 1 – Arithmetic and numerical computation

Do not use a calculator.

Calculate the following, showing all your working.

1. $55 + 36 =$

2. $251 - 72 =$

3. $25 \times 18 =$

4. $216 \div 12 =$

5. $5 - 7 - 32 + 24 =$

6. Lucy writes: $-6 \times -8 = -48$

The answer is incorrect. Explain how you know she has made a mistake.

7. Explain why 1.4×10^{-3} is the same as 0.0014.

8. Joe is attempting the following calculation.

$$1148 \div 14$$

His incorrect solution is shown below.

Line 1 532

Line 2 14 1 148

Line 3 $14 \times 50 = 700$

Line 4 $14 \times 30 = 420$

Line 5 $14 \times 2 = 28$

What is the correct answer? Explain the mistake Joe has made.

9. Amanda is using these numbers to make a new number.

1 -2 4 -8

- She can only use the + and – operations.
- She cannot use any number more than once.
- She cannot use multiplication, division or powers.
- She cannot put numbers together, e.g. she can't use 48.

What is the largest number that she can make?

10. A box has a mass of 60 g and contains test tubes.

Each test tube has a mass of 15 g.

A full box has a mass of 1.5 kg. How many test tubes are in the box?

REMEMBER: 1 kg = 1000 g

Topic Check In 1 RAG - Arithmetic and numerical computation

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2	Able to use manual methods for subtraction			
3	Able to use manual methods for multiplication			
4	Able to use manual methods for division			
5	Able to add and subtract a list of numbers			
6	Understand how to multiply directed numbers			
7	Able to recognise equivalent expressions			
8	Understand the importance of place value in calculations			
9	Understand the effect of subtracting a negative value			
10	Able to apply arithmetic skills to solve problems			

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