Understand the meaning of equality

1 Which calculations are correct? Tick your answers.

7 + 2 = 9 ☑

10 = 3 + 8 ☐

13 – 6 = 7 ☑

6 = 25 – 19 ☑

36 = 5 × 7 ☐

56 ÷ 7 = 6 ☐

2 Which calculations are correct? Tick your answers.

9 + 8 = 6 + 12 ☐

17 + 4 = 3 × 7 ☑

6 x 3 = 5 × 4 ☐

55 ÷ 11 = 2 + 3 ☑

7 x 9 = 70 – 7 ☑

76 – 19 = 49 + 9 ☐

19 + 87 = 87 – 1 + 20 ☑

109 + 30 – 1 = 110 + 29 ☐

423 – 99 = 423 + 1 – 100 ☑

23 × 99 = 2,300 – 23 ☑

7,878 – 78 = 99 × 78 ☐

6,823 × 999 = 6,823,000 – 6,823 ☑

3 Complete the bar model to show that 50 + 30 = 80

4 Here is a number wall.

5	5	5	5	5	5		
9		4	2	3	3	3	3
10		10		10			
25							5

How many equations can you write using this number wall?

Two have been done for you.

6 × 5 = 3 × 10 and 3 × 5 = 9 + 4 + 2

E.g. 3×5 = 9+4+2

3×10 = 25+5

5 Complete the equations.

a) 9 + 6 = 5 + 10

b) 30 – 7 = 4 + 19

c) 59 + 7 = 11 × 6

d) 6 × 2 = 48 ÷ 4

e) 9 ÷ 3 = 18 ÷ 6

f) 20 ÷ 4 = 60 ÷ 12

g) 0.9 + 2 = 3 – 0.1

h) 1 – 0.4 = 1.3 – 0.7

i) 8 ÷ 0.4 = 80 ÷ 4

6 Write integers in the boxes to make the calculations correct.

E.g. **a)** 6 + 5 = 7 + 4

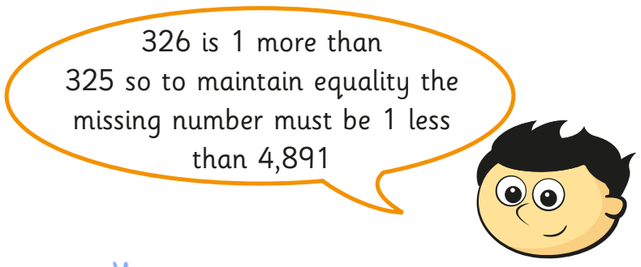
b) 6 × 8 = 55 – 7

c) 8 × 7 = 64 – 8

How many different answers can you find?

7 Jack is finding the missing number in the equation.

4,891 + 325 = 326 + ☐



Is Jack correct? Yes

Explain your answer.

4,891 + 325 = 4,891 + 325 + 1 – 1 = 4,891 – 1 + 325 + 1

= 4,890 + 326

8 Use Jack's method to find the missing numbers in the equations.

a) 7,823 + 339 = 342 + 7,820

b) 792 + 29,403 = 785 + 29,410

Does the same method work when subtraction is involved?

Investigate by finding the missing numbers in the equations.

c) 2,372 – 749 = 2,373 – 750

d) 385 – 237 = 390 – 242

9 Find the missing numbers. Explain your method.

a) 20 ÷ 4 = 200 ÷ 40

20 ÷4 (×10)→ 200 ÷40 (×10)→ 40

b) 70 × 5 = 700 ÷ 2

70 × 5 = (70 × 10) ÷ 2

c) 4,800 ÷ 12 = 4.8 ÷ 0·012

4,800 ÷12 (÷1000)→ 4·8 ÷0·012 (÷1000)→ 0·012