On the 1st of August, Dave and Matt both started part-time work at Harrods. Dave worked every second day, whilst Matt worked every third day. They both earned £20 per day.

a) How many times in August would they work on the same day?

b) How much more would Dave earn than Matt in August?

**Answer:**

Create/use a calendar

a) **6 joint work days in August**: 1st, 7th, 13th, 19th, 25th, 31st

b) Total days: Dave = 16 , Matt = 11

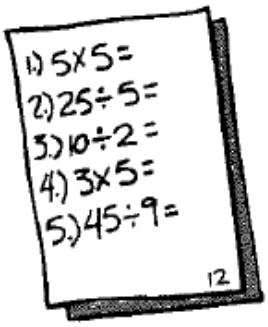
**Dave earns £100 more** compared to Matt [5 x £20]

What must the original number be?

a) If you multiply the number by 5, then add 6, it makes 26.

b) If you subtract 8 from the number, then square the result, it makes 16.

c) If you halve the number, add 2, then multiply by 6, it makes 72.




**Answer:**

Work in reverse

a. 26 – 6 = 20 *then* 20 ÷ 5 = **4**

b. √16 = 4 *then* 4 + 8 = **12**

c. 72 ÷ 6 = 12 then 12 – 2 = 10 *then* 10 x 2 = **20**

In these related number sentences, each symbol represents one of the digits from 1 → 9. Which digit does each symbol represent?

♋ ÷ ∉ = ∉ ψ - ∉ = 🖱 ♋ x ∉ = ψ

Ω + Ω = ∉ ∞ ÷ ♌ =♌ ♌ + ∉ = ✈

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**Answer:**

Ω = 1 🖱 = 6

€ = 2 ☎ = 7

♌ = 3 candle = 8

♋ = 4 ∞ = 9

✈ = 5