Just What Is Asked

SY11-V1 · storyboard · SY11 Find just what is asked. Read each picture with its sentences.

Picture 1

Tweedledum: “Your weight plus twice mine is 361 pounds.”
Tweedledee: “Your weight plus twice mine is 362.” How much do they weigh together?

$$e + 2m = 361 \quad \text{Tweedledum}$$

$$2e + m = 362 \quad \text{Tweedledee}$$

$$e + m \; ? \quad \text{what is asked}$$

$$3e + 3m = 723 \quad \text{add}$$

$$\boxed{e + m = 241} \quad \text{divide by } 3$$

1. Tweedledum says: your weight plus twice mine is three hundred and sixty-one pounds.
2. Tweedledee says: your weight plus twice mine is three hundred and sixty-two.
3. How much do they weigh together?
4. Let e and m be their weights.
5. e + 2m = 361.
6. And 2e + m = 362.
7. Together means e + m.
8. Can we get it straight away?
9. Add the equations: 3e + 3m = 723.
10. Divide every term by three: e + m = 241.
11. They weigh two hundred and forty-one pounds together.

Picture 2

Trap $3e + 3m = 723$

$\times\ e + m = 723$

$\checkmark\ \ e + m = 241$

12. Watch for the trap: dividing only one side.
13. Divide every term by three, the right side too.

Picture 3

Trap together

$\times\ e = 121$

$\checkmark\ \ e + m = 241$

14. And don't give one weight: the question asks for both together.