

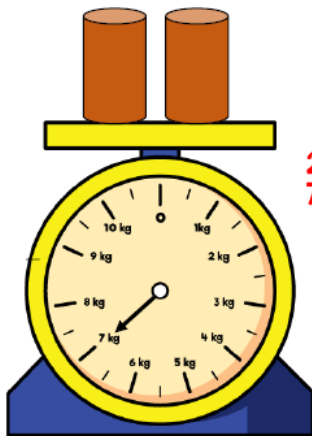
These are suggested answers but **there are other alternatives:**

a	$156+24+3$	$=183$
b	$162+53+4$	$=219$
c	$245+63+1$	$=309$
d	$316+24+5$	$=345$
e	$365+42+1$	$=408$
f	$451+62+3$	$=516$
g	$536+41+2$	$=579$
h	$635+42+1$	$=678$
Highest	$652+41+3$	$=696$
Lowest	$124+35+6$	$=165$

# Problems of the Day 2020

Day 17

- 1 Mary measures the mass of 2 cylinders.



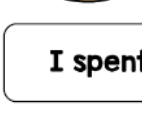
$$\begin{aligned} 2 \times 5 &= 10 \\ 7 \times 5 &= 35 \end{aligned}$$

What is the mass of 10 of these cylinders? **35 kg**

- 2 Jack and Dora each have some money.



I spent half of my money.



I spent £12

They have the same amount left.

Dora spent £20

How much money did Jack have at the start?  **$20 + 12 = 32$**

**Jack had £32 at the start.**



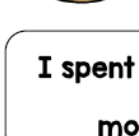
# Problems of the Day 2020

Day 17

- 1 Jack and Dora each have some money.



I spent  $\frac{1}{3}$  of my money.



I spent  $\frac{1}{4}$  of my money.

They have the same amount left.

Dora spent £72

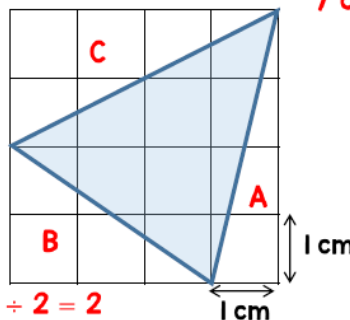
How much money did Jack spend?

$$\begin{aligned} 72 \times 3 &= 216 \\ 216 \div 4 &= 54 \end{aligned}$$

**Jack spent £54**

- 2 What is the area of the triangle?

**$7 \text{ cm}^2$**



$$A = 1 \times 4 \div 2 = 2$$

$$B = 2 \times 3 \div 2 = 3$$

$$C = 2 \times 4 \div 2 = 4$$

$$2 + 3 + 4 = 9$$

$$16 - 9 = 7$$

- 3 Write down all the common multiples of 4 and 6 that are less than 50. Show or explain your method.

**12, 24, 36, 48**

