Name: _____

Class: _____ **Date:** _____

1 Write the five numbers in **order**, smallest first.

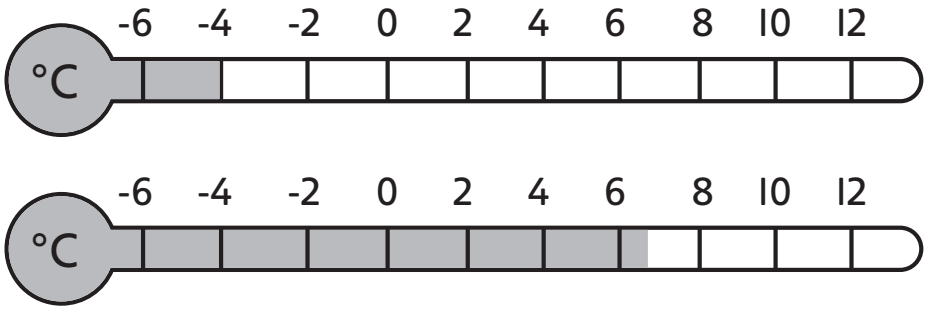
–2	–1·2	2·1	2	–2·2
☐	☐	☐	☐	☐

smallest **largest**

2

2 a) What is the **difference** in the temperatures of the two thermometers?

☐ °C



b) The temperature inside an ice tunnel is **–4°C**.
Outside the temperature is **–10°C**.
How many degrees **warmer** is it inside than outside the ice tunnel?

☐ °C

2

3 a) Circle the **two** fractions that are **equivalent** to each other.

$\frac{2}{3}$ $\frac{3}{6}$ $\frac{4}{9}$ $\frac{5}{6}$ $\frac{6}{9}$

b) Which is the **largest** of the fractions? ☐

2

4 **True** or **false**? Mark with a **tick** (✔) or a **cross** (✖).

a) $1\frac{1}{2} = \frac{2}{3}$ ☐

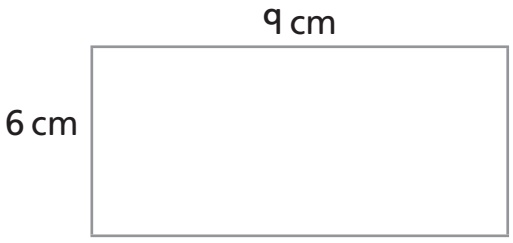
b) $2\frac{1}{4} = \frac{9}{4}$ ☐

c) $\frac{9}{2} = 4\frac{1}{2}$ ☐

d) $\frac{7}{3} = 7\frac{1}{3}$ ☐

2

5 Calculate the **perimeter** and **area** of this **rectangle**, giving the correct **units** with the answer.

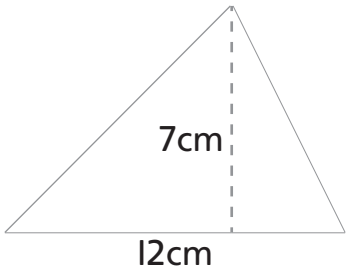


Not to scale

Perimeter = ☐ **Area** = ☐

2

6 The area of a triangle = $\frac{1}{2}$ base × height ($a = \frac{1}{2}\ b \times h$)



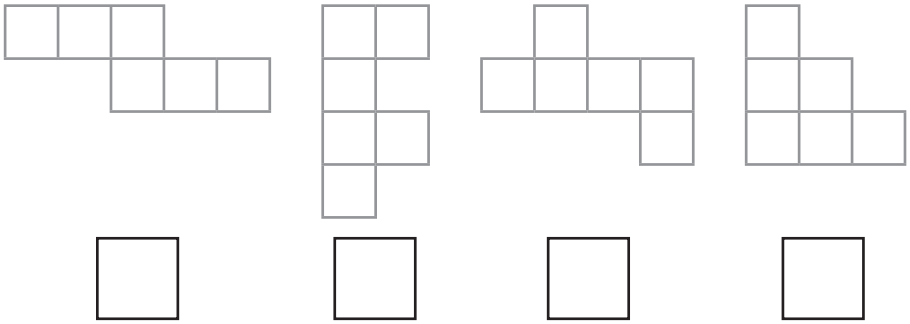
Bobby says the **area** of this **triangle** is **84 cm²**. Petra says it is **42 cm²**. Who is correct? Use the box below to explain how you know.

2

7 Volume = length × width × height ($v = l \times w \times h$)

a) If the **length** of a cube is **5 cm**, what is its **volume**? ☐ cm^3

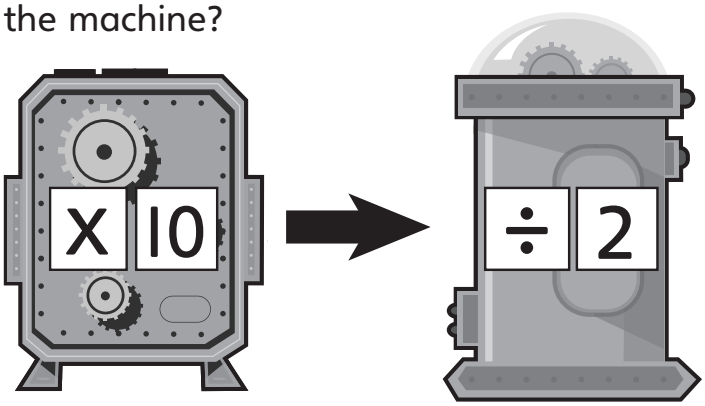
b) Show with a **tick** (✔) which of these **nets** could be folded to make a **cube**.



2

8 a) What is the **output** when you **input 6** into the machine?

b) What is the **output** when you **input 45** into the machine?



2

9 Tariq says that $\frac{3}{4}$ **of 48** is larger than $\frac{2}{5}$ **of 75**.
Is he right? _____
Use the box below to explain your thinking.

2

10 A lottery prize of **£537** is **shared** between **4** friends. **How much** does each friend get?

£

2

11 Peter eats $\frac{3}{8}$ of his pizza; George eats $\frac{1}{2}$ of his.

Answer these problems. Show your working in the box below.

a) How much pizza did they eat **altogether**? ☐

b) How much **more** pizza did George eat than Peter? ☐

2

12 Draw lines to match each **fraction** to its equivalent **percentage**.

$\frac{3}{5}$	$\frac{3}{4}$	$\frac{3}{10}$	$\frac{3}{100}$
30%	**60%**	**3%**	**75%**

2

13 A box of cabbages weighs **24 kilograms**. When prepared for cooking, **25%** of the weight of the cabbages is **thrown away**.
What **weight** of cabbages is **left** for cooking?
Show your working in the box below.

☐

2

14 **Four** children each eat $\frac{3}{5}$ of a pizza. How much pizza is eaten **altogether**?

2

15 **Half** a bottle of lemonade is **shared equally** between **3** children. What **fraction** of the bottle did they each get?

2

For teacher use

Your mark	_____ out of 30
What went well	
How to improve	