Leith Academy Maths Department
National 4 Numeracy
Practice Assessment 2

1) Copy and complete the table filling in the missing value.

Distance	Speed	Time
	30 mph	3 hours
45 km		5 hours
245 miles	70 mph	
	8 m/s	19 seconds
1575 km	420 km/h	
12 km		15 minutes

2) A runner runs at an average speed of 8 miles per hour. How far can he run in 2½hours?

3) A plane takes off at 1020 and flies a distance of 2760 miles at an average speed of 480 miles per hour. What time will the plane land?

4) Divide the following amounts by the given ratio.
a) 40 by the ration 3:2 　　　**b**) 64 by the ration 5:3 　　　**c**) 49 by the ration 5:2
d) 121 by the ration 7:4 　　　**e**) 216 by the ration 4:5 　　　**f**) 364 by the ration 9:4

5) The ratio of boys to girls in a school is 8:9 and there are 816 pupils enrolled at the school. Ben believes there are 432 boys at the school. Is he correct?

6) At a football match the ratio of adults to children is 9:4. If there are 32103 adults at the football match, how many children are there?

7) Calculate the following.
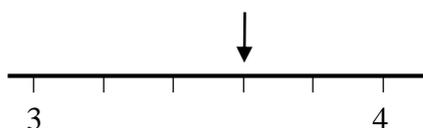**a**) $4 - 9$ 　　　**b**) $-2 - 7$ 　　　**c**) $3 + (-11)$ 　　**d**) $-6 + (-9)$ 　　**e**) $4 - (-8)$ 　　**f**) $-3 - (-14)$

8) If the current temperature is 5°C and it drops by 11°C, what is now the temperature?

9) If the current temperature is -12°C and it rises by 9°C, what is now the temperature?

10) Write down the reading on these scales.

a)

3　　　　　　　　　　4
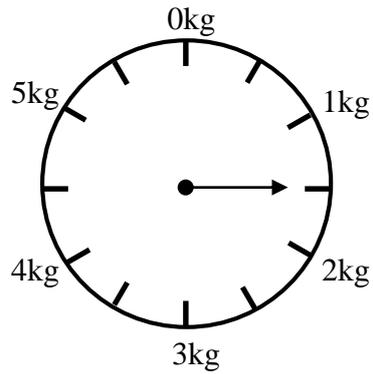
b)

6·5　　　　　　　　　6·6

11) The scales show the current weight of an item.

How much more weight is needed to increase the total weight to 5 kg?

12) Measure these lines.
a)   **b)**
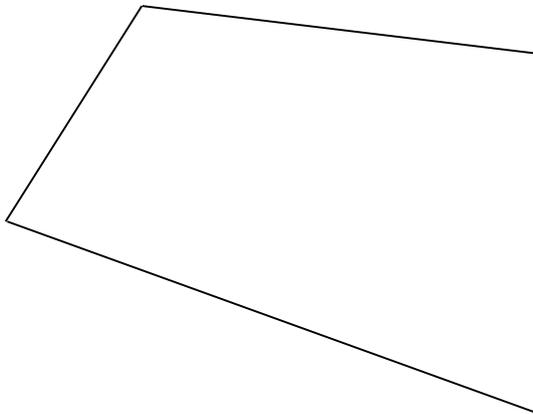
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13a) Measure all the angles in the shape below.

b) Add up all the angles and make a conjecture about the total of all 4 angles of a quadrilateral.