
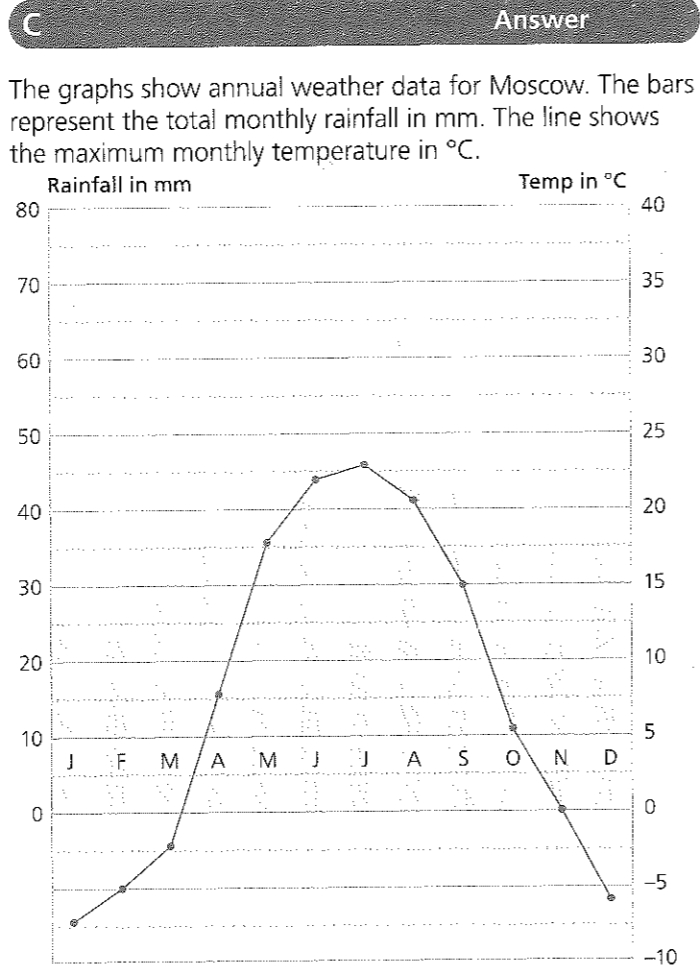


**SECTION 2 | Test 7**

Schofield & Sims

A	Answer
1 Write down the quotient when 105 is divided by 7.	15
2 $(80 \times 5) - (80 \div 5) =$	384
3 $20000 = 2 \times 10000 = 2 \times 10^x$ $x =$	4
4 Insert one of the symbols $<, >, =$ to make this statement correct. $36\% <$	$\frac{3}{8}$
5 $1\frac{1}{2} + \frac{5}{8} =$	$2\frac{1}{8}$
6 $1.5 - 2.3 =$	-0.8
7 $3.6 - (1.8 - 0.6) =$	2.4
8 Approximate 79256 to the nearest hundred.	79300
9 Give the answer to $(0.07 \times 0.08)$ correct to three decimal places.	0.006
10 If $x = 4, y = 2, z = 0$ , evaluate $\frac{xy+z}{y}$ .	4
11 $2 + a = 0$ so $a =$	-2
12 Write the next two terms of the sequence. 2, 3, 5, 7, 11,	13 17


B	Answer
1 If eight lollipops cost £1.76 then one will cost	22p
2 I get 60% discount off my insurance premium of £240. How much do I pay?	£96
3 66ft =	22yd
4 $1\frac{1}{2}$ gallons + 10 pints =	2gal 6pt
5 George can swim a length in 19.36s. Harry takes $\frac{3}{10}$ s longer. What is Harry's time?	19.66s
6 A pen was bought for £2 and sold at a profit of 45%. Find the selling price.	£2.90
7 Find in hectares the area of a rectangle 340m long and 100m wide.	3.4ha
8 A line was enlarged by the scale factor 3. The new line is 5.4cm long. How long in millimetres was the original line?	18mm
9  A box has a rectangular lid. In how many ways can the lid be turned so that it fits the box?	2
10 A box measures 1.9m long by 1.05m wide and is 0.55m deep. Find its approximate volume to the nearest cubic metre.	1m <sup>3</sup>



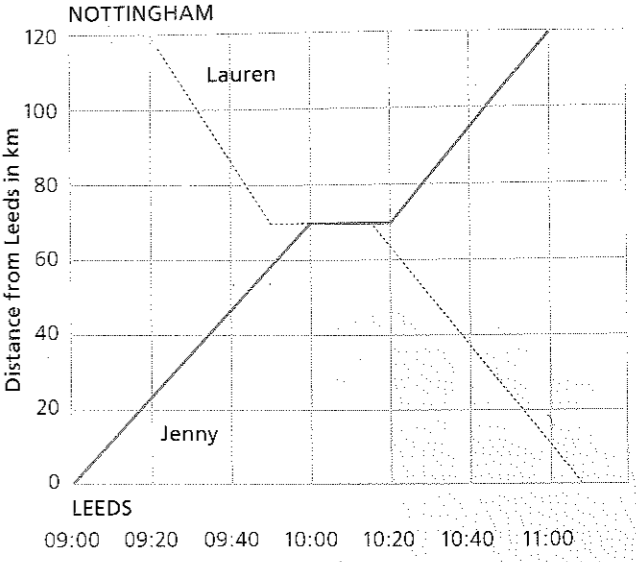
1 Which is the wettest month in Moscow?	August
2 Which is Moscow's driest month?	February
3 Which is the hottest month in Moscow?	July
4 Which is Moscow's coldest month?	January
5 During which five months is the maximum temperature at or below 0°C?	Nov Dec Jan Feb Mar
6 Which season (winter, spring, summer or autumn) is the driest?	winter
7 Which season of the year is the wettest?	summer
8 What is the total rainfall for the wettest three-month period?	194mm
9 What is the mean (average) rainfall for these three months? (answer to the nearest mm)	65mm
10 What is the mean (average) temperature over the hottest three-month period? (answer to nearest 1°C)	22°C
11 What is the mean (average) temperature over the first four months of the year? (answer to the nearest 0.5°C)	-2°C
12 What is the mean (average) temperature over the five wettest months of the year? (answer to nearest 1°C)	20°C

**Mental Arithmetic 6 Answers**

A	Answer
1 $-16 + 20 - 4 =$	0
2 $(80 \times 5) - (80 \div 5) =$	325
3 $2000 = 2 \times 10^x$ so $x =$	3
4 $4\frac{4}{5} < \frac{49}{10}$ True or false?	true
5 $\frac{3}{10} + \frac{4}{5} =$	$1\frac{1}{10}$
6 $1.2 \times 0.12 =$	0.144
7 $5.5 - \frac{6.25}{1.25} =$	0.5
8 Approximate 3.008 to 2 decimal places.	3.01
9 Evaluate $0.1^2$ .	0.01
10 If $a = 4, b = 8$ , evaluate $\frac{a}{a+b}$ as a fraction in its simplest form.	$\frac{1}{3}$
11 $5x + 5 = 5$ so $x =$	0
12 Write down the largest number which is a factor of both 32 and 40.	8

B	Answer
1 If five carrots cost 45p, what will 40 cost?	£3.60
2 What is the interest at $8\frac{1}{2}\%$ on £1600?	£136
3 $1760\text{yd} = 1 \text{ mile}$ . 2 miles = yd	3520yd
4 $\frac{1}{4}$ mile =	440yd
5 In which millennium is the year 2010?	3rd millennium
6 How far does an aeroplane flying at 720km/h travel in 5 minutes?	60km
7 20 muffins were bought for £10.60 and sold for £12.40. What was the profit on each muffin?	9p
8 A square was enlarged by the scale factor 2. The new square has sides of 12cm. Find the area of the original square.	36cm <sup>2</sup>
9  What is the order of rotational symmetry of a rectangle about its centre?	2
10 Eight bottles each have a capacity of 972ml. Find their total capacity to the nearest litre.	8l

**SECTION 2 | Test 8**

C	Answer
Jenny sets off from Leeds to travel to Nottingham. Lauren is travelling from Nottingham to Leeds. They arrange to meet at the motorway service station.	
	
1 At what time does Jenny set off from Leeds?	09:00
2 At what time does Jenny arrive at the service station?	10:00
3 How long does Jenny take to reach the service station?	1h
4 What is the distance in kilometres from Leeds to the service station?	70km
5 What is Jenny's mean (average) speed in km/h between Leeds and the service station?	70km/h
6 At what time does Lauren leave Nottingham?	09:20
7 How long does Lauren take to reach the service station?	0.5h
8 What is Lauren's mean (average) speed in km/h between Nottingham and the service station?	100km/h
9 How long does Jenny stay at the service station?	20min
10 How long does Lauren have to see Jenny while they are both at the service station?	15min
11 When Jenny reaches Nottingham how far does Lauren have to travel to Leeds?	10km
12 What is Jenny's mean (average) speed in km/h for the whole journey from Leeds to Nottingham?	60km/h