Ratio & Proportion: Medium Practice Paper 3 Answers

Q#	Answer	Explanation
1	C	There are 2 + 5 + 4 = 11 parts, so one part is 385 ÷ 11 = 35 tickets. The smallest share is 2 parts, which is 2 × 35 = 70.
2	C	28 is 4 lots of the 7-part, so Tom's age is 4 lots of the 4-part: 4 × 4 = 16 years.
3	C	One kilogram costs £4.20 ÷ 3 = £1.40, so 5 kg costs 5 × £1.40 = £7.00.
4	C	12 km is 1 200 000 cm. Dividing by 50 000 gives 1 200 000 ÷ 50 000 = 24 cm on the map.
5	C	There are 5 + 2 = 7 parts, so one part is 42 ÷ 7 = 6 litres. The red paint is 2 parts, which is 2 × 6 = 12 litres.
6	C	The job takes 4 × 9 = 36 person-days, so 6 people take 36 ÷ 6 = 6 days.
7	C	Each person needs 600 ÷ 4 = 150 ml of stock, so 7 people need 7 × 150 = 1050 ml.
8	B	If one part is n, the sides are 3n and 4n and the area is $12n^2 = 192$, so $n^2 = 16$ and n = 4. The shorter side is 3 × 4 = 12 cm.
9	D	2 minutes 30 seconds is 2.5 minutes, so the copier prints 2.5 × 36 = 90 pages.
10	B	Each pound gives $1.25, so divide the dollars by 1.25: 100 ÷ 1.25 = £80.
11	C	There are 5 + 8 = 13 parts, so one part is 91 ÷ 13 = 7. The smaller number is 5 parts, which is 5 × 7 = 35.
12	D	The largest share is 5 parts, so one part is 20 ÷ 5 = 4 sweets. Altogether there are 3 + 4 + 5 = 12 parts, which is 12 × 4 = 48 sweets.
13	C	One litre covers 15 ÷ 3 = 5 m^2, so 40 m^2 needs 40 ÷ 5 = 8 litres.
14	C	There are 7 + 3 = 10 parts, so one part is 120 ÷ 10 = 12 birds. The difference is 7 − 3 = 4 parts, which is 4 × 12 = 48.

myFreeSchool

15	C	The speed is 210 ÷ 3 = 70 km per hour, so 350 km takes 350 ÷ 70 = 5 hours.

myfreeschool