Fractions, Decimals & Percentages: Medium Practice Paper 7 Answers

Q#	Answer	Explanation
1	D	The fractions need the same denominator, and 15 works for both. Then 2/5 becomes 6/15 and 1/3 becomes 5/15, so the total is 6 + 5 = 11 fifteenths, or 11/15.
2	C	Use 24 as the common denominator. Then 7/8 becomes 21/24 and 1/3 becomes 8/24, so the difference is 21 − 8 = 13 twenty-fourths, or 13/24.
3	A	Multiply the tops and the bottoms: 2 × 3 = 6 on top and 3 × 8 = 24 underneath, giving 6/24. Both divide by 6, so the answer in its simplest form is 1/4.
4	C	Dividing by 2 means taking half, and halving a fraction is done by doubling the bottom number. So 5/6 becomes 5/12, since 6 × 2 = 12.
5	C	Add the whole numbers first: 2 + 1 = 3. Then the fractions, writing 1/2 as 2/4, so 3/4 + 2/4 = 5/4, which is one whole and a quarter. Altogether that is 3 + 1 = 4 wholes and a quarter, or 4 1/4.
6	C	Write both with sixths: 4 1/3 is 4 2/6 and the other is 1 5/6. Since 5/6 is more than 2/6, take one whole from the 4, making 3 8/6. Then 3 − 1 = 2 and 8/6 − 5/6 = 3/6, which is a half, giving 2 1/2.
7	D	Ask how many whole fives fit into 23. Since 4 × 5 = 20, there are 4 wholes with 23 − 20 = 3 fifths left over, so the mixed number is 4 3/5.
8	C	One eighth of 72 is 72 ÷ 8 = 9, so five eighths is 9 × 5 = 45.
9	C	One third of £4.50 is 4.50 ÷ 3 = 1.50 pounds, so two thirds is 1.50 × 2 = 3 pounds.
10	E	Turn each into a decimal by dividing. They come to about 0.556, 0.583, 0.6, 0.625 and 0.667. The largest is 2/3 at about 0.667.
11	B	Finding a half of something means multiplying by 1/2, so work out 1 × 2 = 2 on top and 2 × 5 = 10 underneath, giving 2/10. That cancels down to 1/5.

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12	B	Together they eat 1/4 + 1/3, which in twelfths is 3/12 + 4/12 = 7/12. What is left is the whole cake take away that, so 12/12 − 7/12 = 5/12.
13	D	Six people is one and a half times four people, which the other rows confirm, since 120 g becomes 180 g. Half of 300 g is 150 g, so the flour needed is 300 + 150 = 450 grams.
14	D	One litre is 1,000 millilitres. A quarter of that is 1000 ÷ 4 = 250 ml, so three quarters is 250 × 3 = 750 ml.
15	C	As decimals the two ends are about 0.333 and 0.5. The five choices come to about 0.167, 0.25, 0.4, 0.6 and 0.833, and only 0.4 sits between the two ends, so the answer is 2/5.

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