Mental Arithmetic & Times Tables: Hard Practice Paper 7 Answers

Q#	Answer	Explanation
1	C	75 is three quarters of 100. A quarter of 64 is 16, so three quarters of 64 is 3 × 16 = 48, and a hundred lots of 48 is 4,800.
2	D	Split the 21 into 20 and 1. Twenty 19s are 380 and one more 19 makes 380 + 19 = 399.
3	C	Since 125 × 8 = 1,000, there are 8 lots of 125 in every thousand. Five thousands hold 5 × 8 = 40 of them.
4	C	Add them in easy pairs: 48 + 56 = 104 and 48 + 64 = 112, with 56 still to add. Then 104 + 112 + 56 = 272 seats.
5	A	One eighth of 320 is 320 ÷ 8 = 40, so three eighths is 3 × 40 = 120.
6	C	42 is in the six times table, since 6 × 7 = 42, and in the fourteen times table, since 14 × 3 = 42. None of the other numbers is in both.
7	B	250 is a quarter of a thousand, so 250 × 24 is a thousand lots of a quarter of 24. A quarter of 24 is 6, and a thousand 6s are 6,000.
8	C	Try numbers near 6, since 6 × 6 × 6 = 216 is about the right size. Testing them, 5 × 6 × 7 = 210, so the three numbers are 5, 6 and 7 and the largest is 7.
9	E	Twelve boxes cost 12 × 8.50 = 102 pounds, since ten boxes are 85 pounds and two more are 17. The change is 120 − 102 = 18, so £18.
10	C	Treat each number as 1,000, giving 3,000, then take off what was borrowed. The three numbers are 1, 2 and 3 short, so take off 6: 3,000 − 6 = 2,994.
11	D	Five minutes is 5 × 60 = 300 seconds, which holds 300 ÷ 2 = 150 lots of two seconds. Each of those gives 3 drops, so 150 × 3 = 450 drops.

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12	E	The first four all come to the same number: 12 × 12 = 144, 16 × 9 = 144, 6 × 24 = 144 and 18 × 8 = 144. But 14 × 11 = 154, which is ten too many.
13	C	Two kilograms of apples cost 2 × 2.40 = 4.80 pounds, and half a kilogram of grapes costs 3.60 ÷ 2 = 1.80 pounds. Altogether 4.80 + 1.80 = 6.60, which is £6.60.
14	C	Work from left to right: 84 ÷ 4 = 21, then 21 × 25 = 525, since twenty 25s are 500 and one more 25 makes 525.
15	B	Look for a pair from the times tables that fits both clues. Trying 12 and 14 works, because 12 + 14 = 26 and 12 × 14 = 168, so the larger number is 14.

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