Fractions, Decimals & Percentages: Medium Practice Paper 10

Q1. Sam reads 1/4 of a book on Monday. On Tuesday he reads 1/3 of the pages that are left. What fraction of the whole book does he still have to read?

A. 5/12 *B.* 7/12 *C.* 1/4 *D.* 1/2 *E.* 2/3

Q2. A jacket costs £60. Shop A takes 1/3 off the price. Shop B takes 30% off the price. Which shop is cheaper, and by how much?

A. Shop B, by £2

B. Shop A, by £3

C. Shop B, by £3

D. They charge the same

E. Shop A, by £2

Q3. One cake needs 3/4 of a cup of milk. How much milk is needed for 6 cakes?

A. 4 1/2 cups

B. 2 1/4 cups

C. 6 3/4 cups

D. 8 cups

E. 18 cups

Q4. What is 1/2 + 1/4 + 1/8?

A. 3/14 *B.* 1 *C.* 3/8 *D.* 15/16 *E.* 7/8

Q5. What number goes in the box to make the fractions equal?

$$2/3 = 8/\square$$

A. 9 *B.* 11 *C.* 12 *D.* 24 *E.* 16

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Q6. Which decimal is equal to 3/20?

A. 0.3 *B.* 0.6 *C.* 0.32 *D.* 0.15 *E.* 0.015

Q7. How many minutes are there in 2/5 of an hour?

A. 12 *B.* 20 *C.* 25 *D.* 40 *E.* 24

Q8. Jo eats half of a small pizza. Sam eats half of a large pizza. Who eats more pizza?

A. Jo, because small pizzas have fewer slices

B. They eat the same, because a half is always a half

C. Sam, because half of a bigger whole is a bigger amount

D. Jo, because her half is a bigger fraction

E. It is impossible to tell without counting the slices

Q9. A sequence goes up in quarters: 0.25, 0.5, 0.75, 1, ... What is the 7th number in the sequence?

A. 1.5 *B.* 2 *C.* 7.25 *D.* 1.75 *E.* 1.25

Q10. The price of a coat is reduced by 50%. Later the new price is reduced by another 50%. By what percentage has the original price been reduced altogether?

A. 100% *B.* 50% *C.* 25% *D.* 90% *E.* 75%

Q11. Tom has £40. He spends 25% of it on a game and 1/5 of it on food. How much money does he have left?

A. £18 *B.* £22 *C.* £20 *D.* £24 *E.* £30

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Q12. A square is cut along both of its diagonals into 4 equal triangles, and one triangle is shaded. Another of the triangles is then cut into two equal halves, and one of those halves is shaded too. What fraction of the square is shaded?

A. 3/8 *B.* 1/4 *C.* 1/2 *D.* 5/8 *E.* 2/6

Q13. There are 30 pupils in a class and 40% of them are boys. How many more girls than boys are there?

A. 2 *B.* 12 *C.* 6 *D.* 10 *E.* 18

Q14. A plant is 30 cm tall. Each week it grows by 10% of the height it had at the start of that week. How tall is it after 2 weeks?

A. 33 cm *B.* 36 cm *C.* 36.6 cm *D.* 36.3 cm *E.* 50 cm

Q15. What is 150% of 60?

A. 30 *B.* 75 *C.* 90 *D.* 150 *E.* 210

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