Fractions, Decimals & Percentages: Medium Practice Paper 9

Q1. A fraction has 3 as its top number. The fraction is bigger than 1/3 but smaller than 1/2. Which of these could be its bottom number?

A. 5 *B.* 6 *C.* 9 *D.* 7 *E.* 10

Q2. In a bag of marbles, 1/3 are red, 1/2 are blue and the other 5 marbles are green. How many marbles are in the bag?

A. 10 *B.* 15 *C.* 30 *D.* 25 *E.* 60

Q3. A shop takes 20% off all its prices. What fraction of the original price does a customer pay?

A. 1/5 *B.* 4/5 *C.* 3/4 *D.* 1/20 *E.* 2/5

Q4. Ali works out 15% of 80 by finding 10% and 5% and adding them together. Which two numbers does he add?

A. 10 and 5 *B.* 8 and 5 *C.* 80 and 40 *D.* 16 and 4 *E.* 8 and 4

Q5. A test has 40 questions. Zara gets 85% of them right. How many questions does she get wrong?

A. 6 *B.* 34 *C.* 15 *D.* 8 *E.* 4

Q6. Tom spends half of his money on a book. Then he spends half of what is left on a pen. He now has £6. How much money did he start with?

A. £12 *B.* £18 *C.* £36 *D.* £24 *E.* £48

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Q7. Zoe simplifies 12/18 by dividing the top and the bottom by 2. She writes 6/9 and says she has finished. Is she right?

A. Yes, 6/9 is the simplest form

B. No, she should divide by 2 again to get 3/4.5

C. No, she should divide by 6 to get 1/3

D. No, she should have got 6/8

E. No, she can divide by 3 to get 2/3

Q8. Between which two whole numbers does the fraction 17/5 lie?

A. Between 1 and 2

B. Between 2 and 3

C. Between 3 and 4

D. Between 4 and 5

E. Between 5 and 6

Q9. 200 people were asked to choose their favourite drink. The table shows the results as percentages, but one is missing. How many people chose juice?

Drink	Percentage
Tea	35%
Coffee	40%
Juice	?
Water	10%

A. 15 *B.* 20 *C.* 45 *D.* 30 *E.* 60

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Q10. Ben writes 1/2 + 1/3 = 2/5. What has he done wrong, and what is the correct answer?

A. Nothing, 2/5 is correct

B. He added the tops and added the bottoms; the correct answer is 5/6

C. He should have multiplied; the correct answer is 1/6

D. He added the tops and added the bottoms; the correct answer is 2/6

E. The fractions cannot be added because the bottom numbers are different

Q11. What fraction goes in the box?

$$5/6 = 1/2 + \square$$

A. 1/4 *B.* 1/6 *C.* 2/3 *D.* 1/3 *E.* 1/12

Q12. Amy scores 17 out of 20 in a spelling test. Ben scores 21 out of 25 in a different test. Who has the higher percentage, and by how much?

A. Amy, by 1%

B. Ben, by 1%

C. Ben, by 4%

D. Amy, by 4%

E. They have the same percentage

Q13. A decimal number is multiplied by 10 and the answer is equal to 3/4. What was the decimal number?

A. 7.5 *B.* 0.75 *C.* 0.34 *D.* 0.0075 *E.* 0.075

Q14. What percentage of the whole numbers from 1 to 20 are multiples of 4?

A. 4% *B.* 5% *C.* 20% *D.* 40% *E.* 25%

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Q15. A rectangle is divided into 20 equal squares. 7 squares are coloured red and 5 are coloured blue. The rest are left white. What percentage of the rectangle is white?

A. 8% *B.* 40% *C.* 12% *D.* 60% *E.* 80%

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