Fractions, Decimals & Percentages: Hard Practice Paper 8

Q1. The table shows the same values written three ways, but two cells are blank. What belongs in the shaded row for 5/8?

Fraction	Decimal	Percentage
1/8	0.125	12.5%
3/8	0.375	37.5%
5/8	?	?
7/8	0.875	87.5%

A. 0.58 and 58%

B. 0.625 and 62.5%

C. 0.58 and 62.5%

D. 0.625 and 65%

E. 0.65 and 65%

Q2. Which of these lists the values in order, smallest first?

0.35, 1/3, 3/8, 34%

A. 1/3, 0.35, 34%, 3/8

B. 1/3, 34%, 0.35, 3/8

C. 34%, 1/3, 0.35, 3/8

D. 3/8, 0.35, 34%, 1/3

E. 1/3, 34%, 3/8, 0.35

Q3. Which single calculation increases an amount by 15%?

A. Multiplying by 1.15

B. Multiplying by 0.15

C. Multiplying by 1.5

D. Adding 0.15

E. Multiplying by 15

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Q4. Which single calculation decreases an amount by 20%?

A. Multiplying by 0.8

B. Multiplying by 0.2

C. Multiplying by 1.2

D. Dividing by 20

E. Subtracting 0.2

Q5. A price is increased by 25% and the new price is then decreased by 20%. What is the overall change?

A. It returns to the original price

B. It is 5% higher than the original

C. It is 5% lower than the original

D. It is 45% higher than the original

E. It is 1% lower than the original

Q6. The table shows three packs of the same rice. Which pack is the best value?

Pack	Weight	Price
Small	500 g	£1.20
Medium	1.5 kg	£3.30
Large	2 kg	£4.60

A. The small pack

B. The medium pack

C. The large pack

D. The small and large packs are equal

E. All three are the same value

Q7. What percentage of 2/3 is 1/2?

A. 33% *B.* 50% *C.* 66% *D.* 75% *E.* 133%

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Q8. What is 5/8 of 40% of 800?

A. 150 *B.* 180 *C.* 200 *D.* 250 *E.* 320

Q9. What fraction of one day is 9 hours? Give your answer in its simplest form.

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

Q10. What percentage of 2.5 kg is 400 g?

A. 4% *B.* 8% *C.* 10% *D.* 12.5% *E.* 16%

Q11. A coat is reduced by 20%, and the reduced price is then cut by a further 10%. It now costs £108. What was the original price?

A. £128 *B.* £135 *C.* £140 *D.* £150 *E.* £155

Q12. £240 is shared out so that Ali receives 3/8 of it and Bella receives 40% of it. How much is left over?

A. £24 *B.* £36 *C.* £54 *D.* £60 *E.* £90

Q13. Which is the better buy: 3 pens for £5, or 5 pens for £8?

A. 3 for £5, because the pack is smaller

B. 5 for £8, because each pen costs less

C. 3 for £5, because each pen costs less

D. They cost the same for each pen

E. It cannot be worked out

Q14. Without working it out exactly, which of these is closest to 39% of 61?

A. About 18 *B.* About 24 *C.* About 30 *D.* About 39 *E.* About 100

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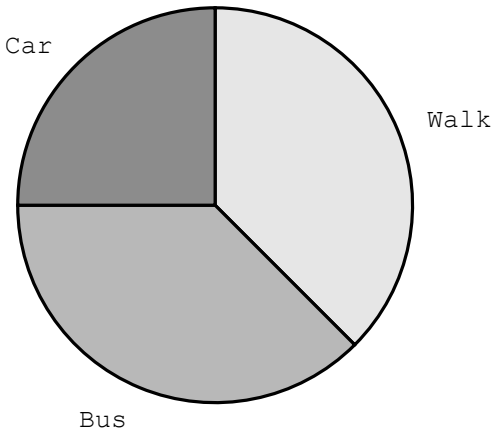
Q15. The pie chart shows how 360 pupils travel to school. The walking sector is 3/8 of the circle. How many pupils walk?



A. 45 *B.* 90 *C.* 120 *D.* 135 *E.* 180

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