Rounding & Estimating: Hard Practice Paper 8

Q1. A running track is 240 m long, measured to the nearest metre. A runner completes 5 laps. What is the greatest possible total distance?

A. 1,225 m *B.* 1,200 m *C.* 1,205 m *D.* 1,202 m *E.* 1,202.5 m

Q2. A shop takes £4,870 in a day. Estimate its takings over a 6-day week.

A. About £300,000

B. About £24,000

C. About £3,000

D. About £30,000

E. About £50,000

Q3. A number rounds to 8 when rounded to the nearest whole number. Which statement must be true?

A. It must be more than 8

B. It is at least 7.5 and less than 8.5

C. It could be 8.5

D. It could be 7.4

E. It is at least 8 and less than 9

Q4. A printer prints 1,970 pages in 39 minutes. Estimate how many pages it prints each minute.

A. About 50 *B.* About 5 *C.* About 500 *D.* About 40 *E.* About 80

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Q5. Using estimation, which two items in the table together cost closest to £50?

Item	Price
Coat	£31.40
Shoes	£24.30
Shirt	£18.95
Belt	£12.60

A. The coat and the shoes

B. The coat and the shirt

C. The shoes and the shirt

D. The shoes and the belt

E. The shirt and the belt

Q6. Estimate the value of $(5.9 \times 8.2) \div 0.51$.

A. About 10 *B.* About 24 *C.* About 48 *D.* About 96 *E.* About 200

Q7. A country's population is 67,326,569. Write this to 3 significant figures.

A. 673,000

B. 67,000,000

C. 67,300,000

D. 67,330,000

E. 68,000,000

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Q8. A club needs to raise £2,000. It has 38 members who each pay £47. Use estimation to decide whether that is enough.

A. Yes, the total is about £2,400

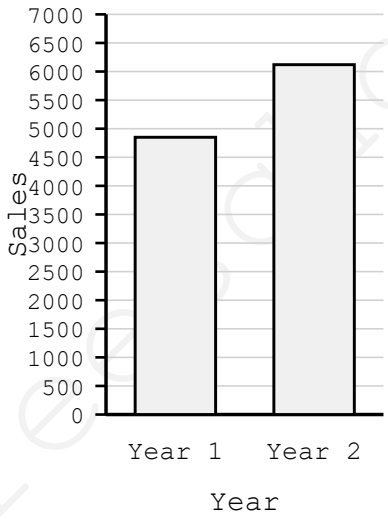
B. Yes, the total is about £2,000

C. No, the total is only about £1,800

D. No, the total is only about £900

E. It cannot be estimated

Q9. The bar chart shows the sales in two years. Estimate how many more were sold in year 2 than in year 1.



A. About 500

B. About 800

C. About 2,000

D. About 1,300

E. About 11,000

Q10. A whole number is 4,000 to the nearest thousand and 3,950 to the nearest 50. How many whole numbers satisfy both conditions?

A. 50 *B.* 49 *C.* 25 *D.* 100 *E.* 1

Q11. Estimate the value of $29.8^2 - 19.9^2$.

A. About 900

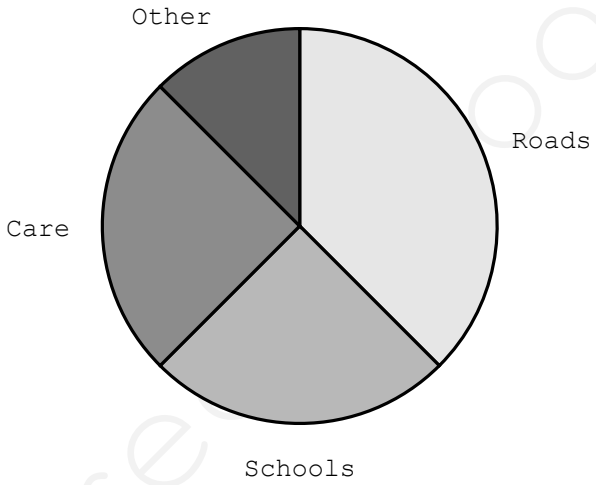
B. About 100

C. About 500

D. About 1,000

E. About 200

Q12. The pie chart shows how a council spends £8 million. Estimate the amount spent on schools.



A. About £6 million

B. About £4 million

C. About £1 million

D. About £3 million

E. About £2 million

Q13. A pupil works out 6.2 × 4.9 and gets 3.038. What has gone wrong?

A. Nothing, the answer is correct

B. The answer should be about 30, so the decimal point is misplaced

C. The answer should be about 3, so only the last digit is wrong

D. The answer should be about 300

E. The pupil has added instead of multiplied

Q14. Three parcels weigh 1.2 kg, 2.5 kg and 0.8 kg, each measured to the nearest 0.1 kg. What is the greatest possible total weight?

A. 5 kg *B.* 4.5 kg *C.* 4.6 kg *D.* 4.55 kg *E.* 4.65 kg

Q15. What is the smallest whole number that rounds to 7,000 both to the nearest thousand and to the nearest 500?

A. 6,750 *B.* 6,500 *C.* 6,950 *D.* 7,000 *E.* 6,751

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