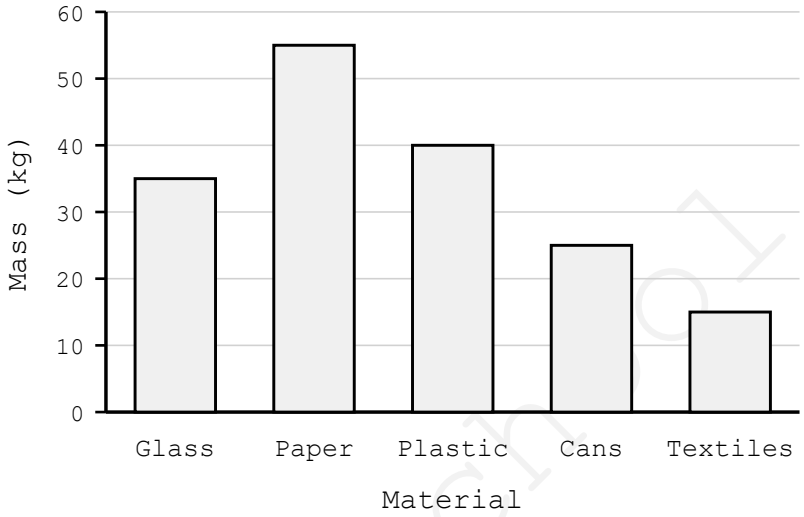
Data Handling & Probability: Medium Practice Paper 3

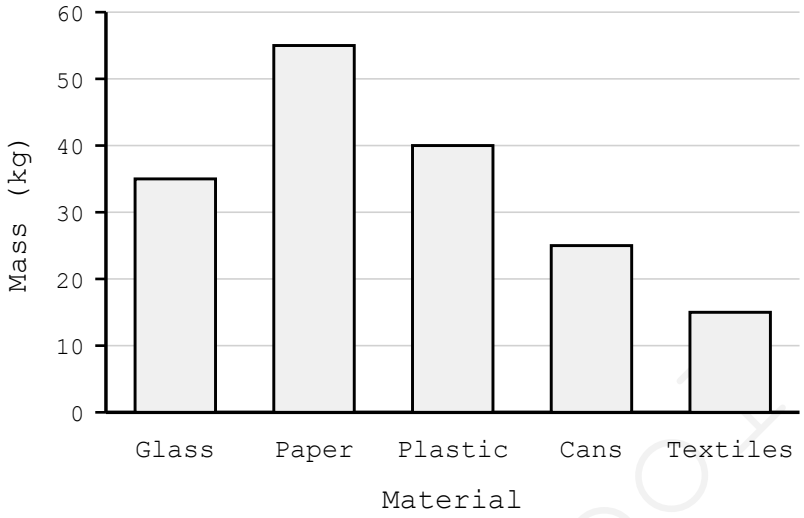
Q1. The bar chart shows the recycling collected by a school, in kilograms. How many kilograms of plastic were collected?



A. 25 B. 30 C. 35 D. 40 E. 45

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Q2. Use the bar chart. Which two materials together weigh the same as the paper?



A. Glass and cans

B. Glass and textiles

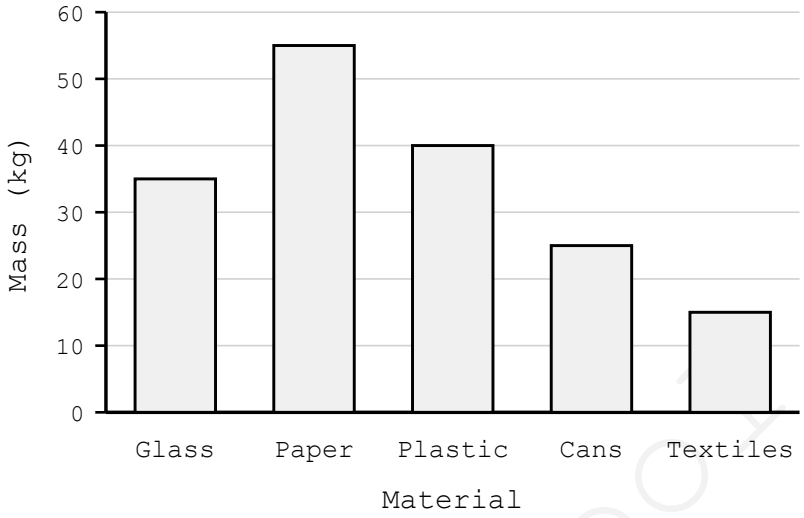
C. Plastic and textiles

D. Plastic and cans

E. Cans and textiles

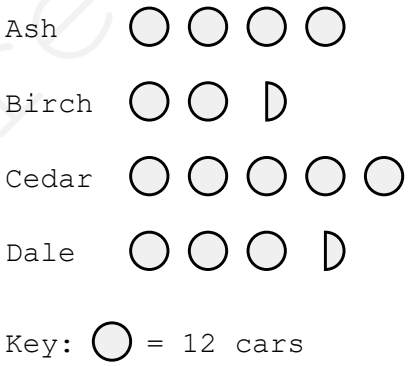
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Q3. Use the bar chart. How many kilograms of recycling were collected altogether?



A. 170 B. 175 C. 180 D. 185 E. 190

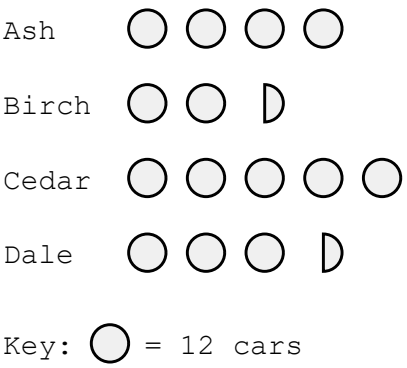
Q4. The pictogram shows the cars washed by four teams at a fundraiser. How many cars did the Birch team wash?



A. 18 B. 24 C. 30 D. 36 E. 42

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Q5. Use the pictogram. How many more cars did Cedar wash than Dale?



A. 12 B. 18 C. 24 D. 30 E. 36

Q6. These are the midnight temperatures, in °C, recorded on five nights.

−3, 5, −7, 2, 8

What is the range of the temperatures?

A. 10 B. 11 C. 13 D. 15 E. 17

Q7. Four children spent £2.40, £1.80, £3.60 and £2.20 at a school fair. What was the mean amount spent?

A. £1.90 B. £2.10 C. £2.25 D. £2.40 E. £2.50

Q8. A box holds 15 pens: 6 are blue, 4 are red and 5 are black. One pen is taken without looking. What is the probability that it is black, in its simplest form?

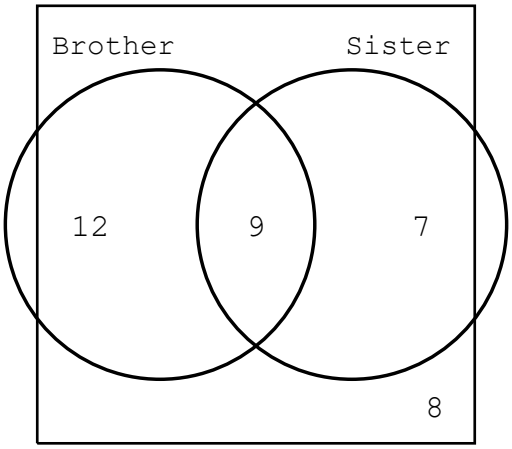
A. 4/15 B. 1/3 C. 2/5 D. 7/15 E. 3/5

Q9. The probability that a seed grows into a plant is 0.85. What is the probability that the seed does not grow?

A. 0.15 B. 0.25 C. 0.75 D. 0.85 E. 1.15

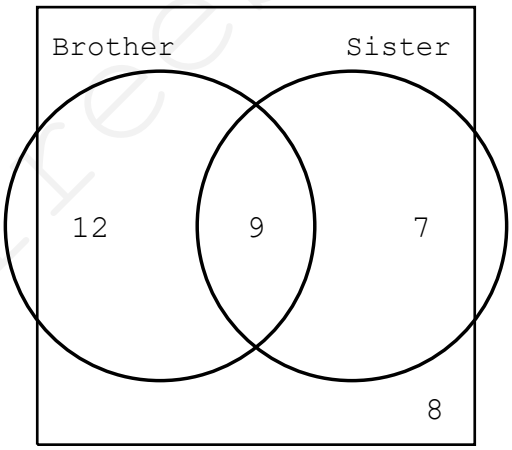
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Q10. The Venn diagram shows whether pupils have a brother or a sister. How many pupils have a brother?



A. 12 B. 16 C. 19 D. 21 E. 28

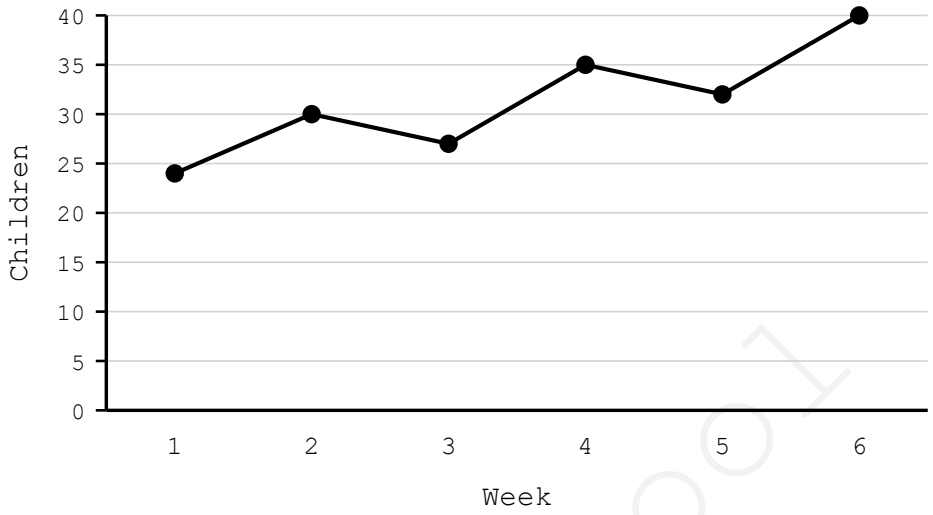
Q11. Use the Venn diagram. What fraction of the pupils have neither a brother nor a sister?



A. 1/6 B. 2/9 C. 1/4 D. 5/18 E. 1/3

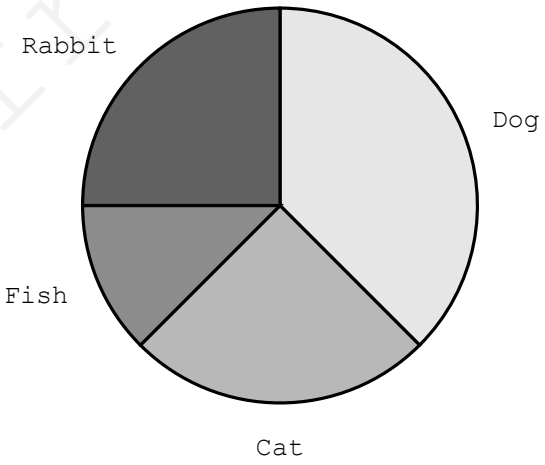
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Q12. The line graph shows how many children came to swimming club each week. In how many weeks did more than 30 children come?



A. 1 B. 2 C. 3 D. 4 E. 5

Q13. The pie chart shows the favourite pet of 24 pupils, and the cat sector is exactly a quarter of the circle. How many pupils did not choose a cat?



A. 6 B. 12 C. 15 D. 18 E. 20

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Q14. The two-way table shows how pupils travel to school. One of these pupils is chosen at random. What is the probability that the pupil cycles?

Pupils	Walk	Cycle	Bus
Year 5	10	6	4
Year 6	8	5	7

A. 1/8 B. 11/40 C. 3/10 D. 2/5 E. 1/2

Q15. Which of these events is the most likely?

A. Rolling a 5 on a fair six-sided dice

B. Taking a red counter from a bag of 3 red and 7 blue counters

C. Picking a vowel from the letters of the word MATHS

D. Choosing a Monday from the seven days of the week

E. Flipping a head on a fair coin

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