Year 6 maths: Pie graphs and line graphs: fractions, percents and change (Easy)

Maths · Data
Level: Easy

Student: _____ Date: _____

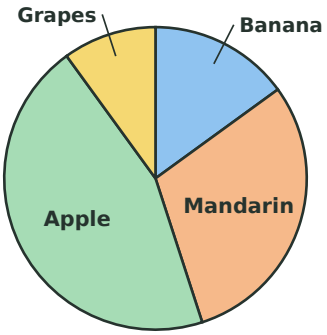
Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. Which fruit is the favourite of the most students?

Circle one answer.

Favourite fruit at Banksia Public School

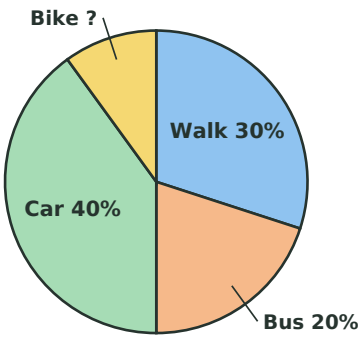


○ **A** Mandarin ○ **B** Banana
○ **C** Apple

2. The sectors add up to 100%. What percent of students ride a bike?

Answer: _____ %

How Year 6 travel to school

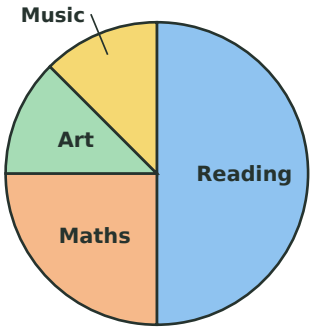


Working:

3. What fraction of the pie is Reading?

Circle one answer.

Favourite lesson in Year 6

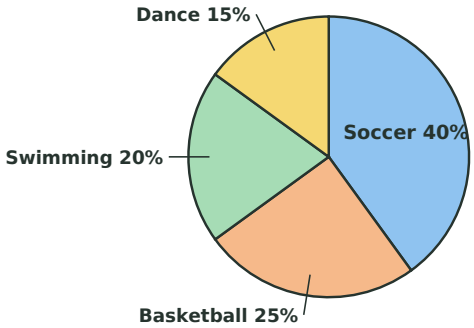


○ **A** 1/2 ○ **B** 1/4 ○ **C** 1/8

4. 200 students were asked. How many chose Basketball?

Answer: ☐ students

Sports chosen by 200 students

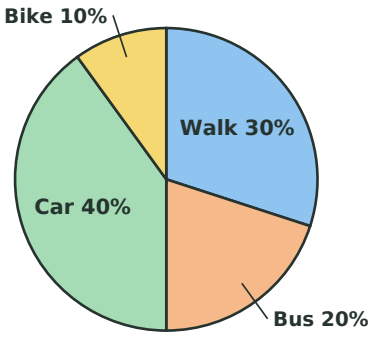


Working:

5. There are 250 students. How many ride a bike?

Answer: ☐ students

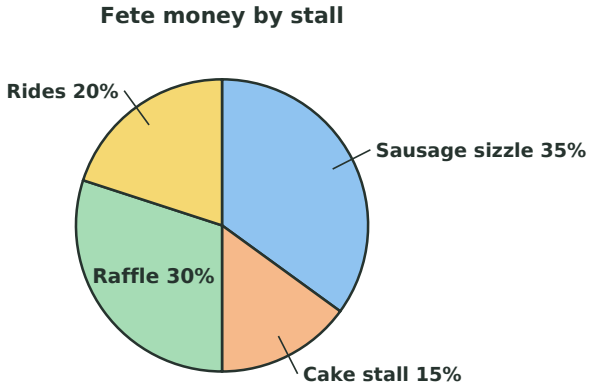
How Year 6 travel to school



Working:

6. Which two sectors together make exactly 50% of the money?

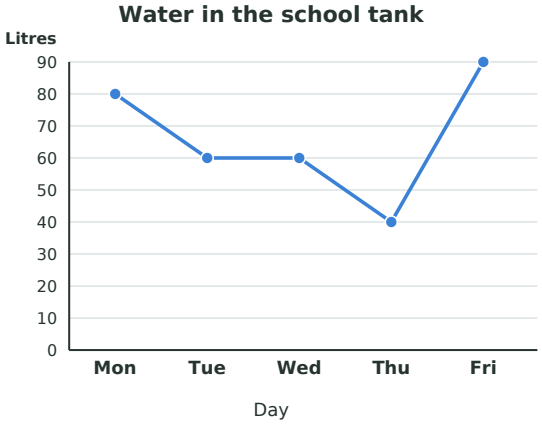
Circle one answer.



- ○ **A** Sausage sizzle and Cake stall
- ○ **B** Cake stall and Rides
- ○ **C** Sausage sizzle and Raffle

7. Between which two days did the water level stay the same?

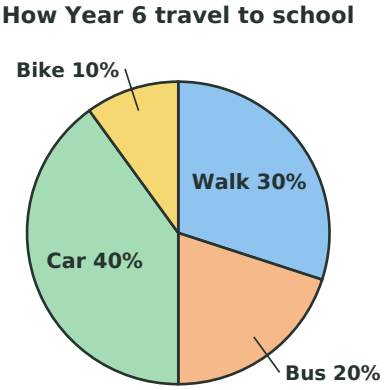
Circle one answer.



- ○ **A** Thursday and Friday
- ○ **B** Tuesday and Wednesday
- ○ **C** Monday and Tuesday

8. Which statement does the pie graph show to be true?

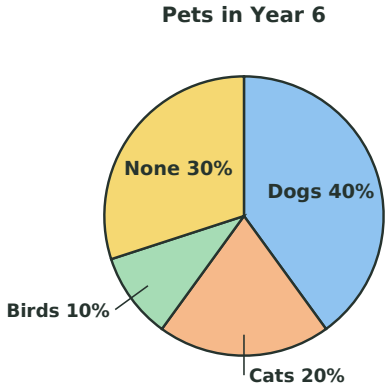
Circle one answer.



- ○ **A** Exactly 40 students come by car.
- ○ **B** Fewer than 10% of students walk.
- ○ **C** Car is the most common way to travel.

9. 60 children were asked about pets. How many have cats?

Answer: ☐ children

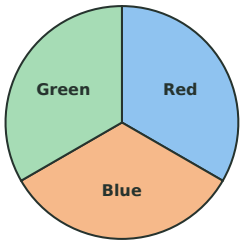


Working:

10. Which pie graph shows: half chose red, a quarter blue and a quarter green?

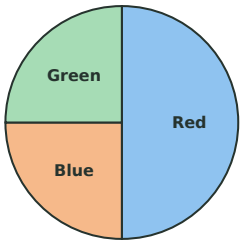
Circle one answer.

Pie A



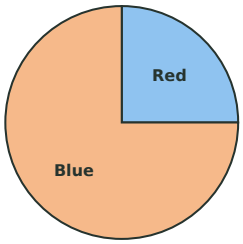
○ **A** Pie A

Pie B



○ **B** Pie B

Pie C



○ **C** Pie C

Answer key

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1. C — Apple

The Apple sector is the biggest, so most students chose Apple.

2. 10 %

30 + 20 + 40 = 90, and 100 − 90 = 10.

3. A — 1/2

The Reading sector is half of the whole pie.

4. 50 students

25% is 1/4. 200 ÷ 4 = 50.

5. 25 students

10% is 1/10. 250 ÷ 10 = 25.

6. A — Sausage sizzle and Cake stall

35% + 15% = 50%. The other pairs are 65% and 35%.

7. B — Tuesday and Wednesday

A flat part of the line means no change: Tuesday and Wednesday are both on the 60 line.

8. C — Car is the most common way to travel.

Car has the biggest sector (40%). The graph shows percents, not exact numbers of students, and 30% walk.

9. 12 children

20% is 1/5. 60 ÷ 5 = 12.

10. B — Pie B

Half of the circle is red, and the other half is split into two equal quarters.