Year 5 maths: Link fractions, hundredths, decimals and percent (Medium)

Maths · Fractions · Level: Medium

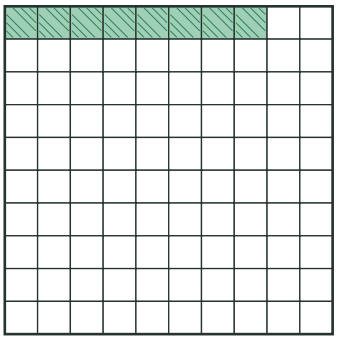
Student: _____ Date: _____

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. How much of the grid is shaded?

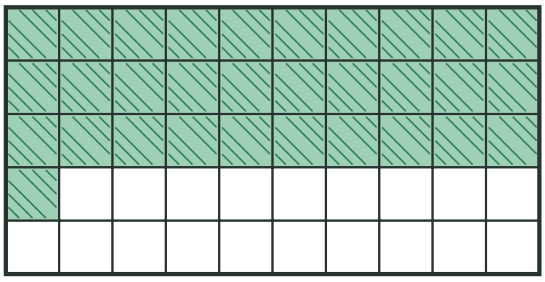
Circle one answer.



○ **A** 8/100 ○ **B** 8/10 ○ **C** 92/100 ○ **D** 8/92

2. Out of 50 squares, some are shaded. What fraction of the squares is NOT shaded?

Circle one answer.



○ **A** 19/50 ○ **B** 19/31 ○ **C** 31/50 ○ **D** 19/49

3. Thirty-six hundredths as a decimal is...

Circle one answer.

○ **A** 36 ○ **B** 0.036 ○ **C** 3.6 ○ **D** 0.36

4. What decimal is the same as 7 out of 100?

Circle one answer.

○ **A** 0.07 ○ **B** 0.7 ○ **C** 0.007 ○ **D** 7

5. What is 2/5 of 35?

Answer: ☐

Working:

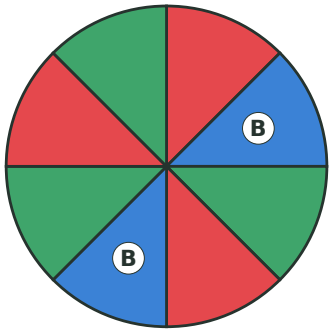
6. A wombat sanctuary has 28 visitors in a day. 3/4 of them are children. How many children visited?

Answer: ☐

Working:

7. The spinner has 8 equal sections. What fraction of the spinner is blue? That is the chance of landing on blue.

Circle one answer.



○ **A** 6/8 ○ **B** 2/8 ○ **C** 2/6 ○ **D** 2/3

Colour key: B = blue

8. In a survey of 100 students, 48 walk to school. What per cent of the students walk to school?

Answer: ☐ %

Working:

9. A tank holds 40 L of water. 60% has been used. How many litres are left?

Answer: ☐ L

Working:

10. A 1 L jug of juice has 350 mL used. What percent of the jug is used?

Circle one answer.

○ **A** 3.5% ○ **B** 65% ○ **C** 35% ○ **D** 350%

Answer key

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1. A — 8/100

There are 100 equal squares and 8 are shaded. The fraction shaded is 8/100.

2. A — 19/50

There are 50 equal squares. 31 are shaded, so 19 are not shaded: 19/50.

3. D — 0.36

36/100 means 36 hundredths. The hundredths place is the second place after the point: 0.36.

4. A — 0.07

7/100 means 7 hundredths. The hundredths place is the second place after the point: 0.07.

5. 14

35 ÷ 5 = 7 for one part. 2 parts: 2 × 7 = 14.

6. 21

28 ÷ 4 = 7 for one part. 3 parts: 3 × 7 = 21.

7. B — 2/8

2 of the 8 equal sections are blue, so the chance is 2/8.

8. 48 %

Per cent means out of 100. 48 out of 100 is 48%.

9. 16 L

40% is left. 10% of 40 is 4, so 40% is 16 L. (Or: 60% of 40 is 24 L used, and 40 − 24 = 16 L.)

10. C — 35%

1 L = 1000 mL. 350 out of 1000 is 35 out of 100, or 35%.