Year 5 maths: Mixed numbers, decimals and number lines (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. Write 27 9/100 as a decimal.

Circle one answer.

○ **A** 27.09 ○ **B** 27.9 ○ **C** 9.27 ○ **D** 279

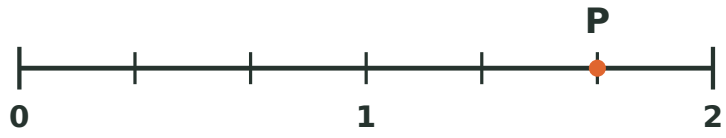
2. A bush tucker garden bed is 4 3/10 m wide. Write the width as a decimal.

Circle one answer.

○ **A** 4.3 ○ **B** 43 ○ **C** 4.03 ○ **D** 3.4

3. Point P is on the number line. Which mixed number is it?

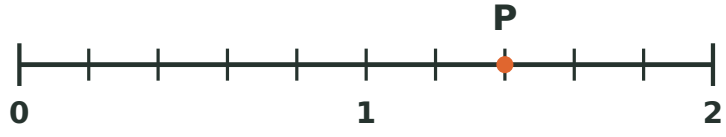
Circle one answer.



○ **A** 2 2/3 ○ **B** 2/3 ○ **C** 5/6 ○ **D** 1 2/3

4. What number does point P show?

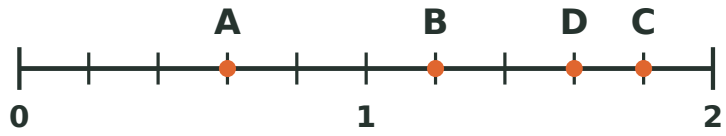
Circle one answer.



○ **A** 2/5 ○ **B** 1 2/5 ○ **C** 1 3/5 ○ **D** 7/10

5. Which point shows 1 3/5?

Circle one answer.



○ **A** Point A ○ **B** Point B ○ **C** Point C ○ **D** Point D

6. What decimal does point P show?

Circle one answer.



○ **A** 0.5 ○ **B** 1 ○ **C** 1.25 ○ **D** 1.5

7. Point P is on this number line. What number is it?

Circle one answer.



○ **A** 0.35 ○ **B** 0.7 ○ **C** 0.3 ○ **D** 0.4

8. A phone battery has used 54% of its charge. What per cent of the charge is left?

Circle one answer.

○ **A** 54% ○ **B** 56% ○ **C** 46% ○ **D** 36%

9. What per cent is the same as 3/5?

Circle one answer.

○ **A** 30% ○ **B** 60% ○ **C** 35% ○ **D** 3.5%

10. Which of these are the same as 0.25? Tick every one.

Tick every answer that fits.

☐ **A** 2.5% ☐ **B** 25% ☐ **C** 1/4 ☐ **D** 25/100 ☐ **E** 25/10

Answer key

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1. A — 27.09
9/100 is 9 hundredths. Hundredths are the second place, so the tenths place holds a 0: 27 9/100 = 27.09.

2. A — 4.3
3/10 is 3 tenths, so 4 3/10 = 4.3. The tenths are the first place after the point.

3. D — 1 2/3
Each whole is cut into 3 equal jumps. P is past 1 whole and 2 more jumps: 1 2/3.

4. B — 1 2/5
Each whole is cut into 5 equal jumps. P is past 1 whole and 2 more jumps: 1 2/5.

5. D — Point D
1 3/5 is 1 whole and 3 of the 5 equal jumps. That is point D.

6. C — 1.25
The line goes from 0 to 2 in 8 equal jumps, so each jump is 0.25. P is 5 jumps from 0: 5 × 0.25 = 1.25.

7. A — 0.35
The line goes from 0 to 0.5 in 10 equal jumps, so each jump is 0.05. P is 7 jumps from 0: 7 × 0.05 = 0.35.

8. C — 46%
The whole charge is 100%, so what is left is 100% − 54% = 46%.

9. B — 60%
3/5 = 6/10 = 60/100 = 60%.

10. B — 25%; C — 1/4; D — 25/100
0.25 = 25/100 = 25% = 1/4. 2.5% is only 25 thousandths and 25/10 is 2.5.