Year 5 maths: Mixed numbers, decimals and number lines (Hard)

Maths · Fractions
Level: Hard

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

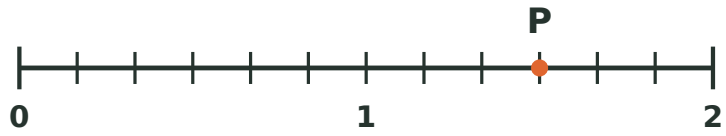
1. 340 7/10 as a decimal is...

Circle one answer.

○ **A** 340.7 ○ **B** 7.340 ○ **C** 3407 ○ **D** 340.07

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

Circle one answer.



○ **A** 1 3/6 ○ **B** 3/6 ○ **C** 9/12 ○ **D** 1 4/6

3. What number does point P show?

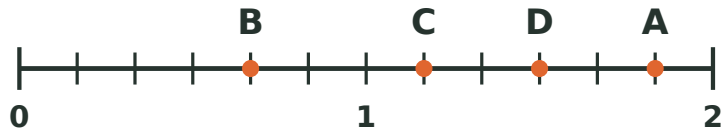
Circle one answer.



○ **A** 2 3/4 ○ **B** 10/12 ○ **C** 2/4 ○ **D** 2 2/4

4. Which point shows 1 5/6?

Circle one answer.



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

5. What decimal does point P show?

Circle one answer.



○ **A** 0.13 ○ **B** 0.6 ○ **C** 0.65 ○ **D** 0.7

6. A school hall's seats are 0.38 taken by Year 5 and 29/100 taken by Year 6. What per cent of the seats are free?

Circle one answer.

○ **A** 33% ○ **B** 62% ○ **C** 67% ○ **D** 43%

7. Which is greater: 4 3/10 or 4.25?

Circle one answer.

○ **A** They are equal ○ **B** Not enough information

○ **C** 4.25 ○ **D** 4 3/10

8. Which is greater: 2 6/10 or 2.45?

Circle one answer.

○ **A** They are equal ○ **B** Not enough information

○ **C** 2 6/10 ○ **D** 2.45

9. Which of these is NOT equal to 2 1/4?

Circle one answer.

○ **A** 2.4 ○ **B** 2.25 ○ **C** 2 25/100 ○ **D** 9/4

10. What per cent is the same as 7/20?

Circle one answer.

○ **A** 70% ○ **B** 7.20% ○ **C** 27% ○ **D** 35%

Answer key

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1. A — 340.7

7/10 is 7 tenths, so 340 7/10 = 340.7. The tenths are the first place after the point.

2. A — 1 3/6

Each whole is cut into 6 equal jumps. P is past 1 whole and 3 more jumps: 1 3/6.

3. D — 2 2/4

Each whole is cut into 4 equal jumps. P is past 2 wholes and 2 more jumps: 2 2/4.

4. A — Point A

1 5/6 is 1 whole and 5 of the 6 equal jumps. That is point A.

5. C — 0.65

The line goes from 0 to 1 in 20 equal jumps, so each jump is 0.05. P is 13 jumps from 0: 13 × 0.05 = 0.65.

6. A — 33%

0.38 = 38% and 29/100 = 29%. Used altogether: 38% + 29% = 67%. Left: 100% − 67% = 33%.

7. D — 4 3/10

4 3/10 = 4.3 = 4.30. That is more than 4.25, because 30 hundredths is more than 25 hundredths.

8. C — 2 6/10

2 6/10 = 2.6 = 2.60. That is more than 2.45, because 60 hundredths is more than 45 hundredths.

9. A — 2.4

2 1/4 = 2 25/100 = 2.25 = 9/4. 2.4 is 2 and 4 tenths.

10. D — 35%

7/20 = 35/100 = 35%.