Year 4 maths: Equivalent fractions and fractions on 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. 9/12 = ?/4. What is the missing top number?

Answer: ☐



Working:

2. 3/4 = ?/12. What is the missing top number?

Answer: ☐



Working:

3. Which is bigger: 3/8 or 1/2?

Circle one answer.

○ **A** They are the same ○ **B** 1/2

○ **C** 3/8

4. Which is the smallest: 1/2, 3/8 or 3/4?

Circle one answer.

○ **A** 3/4 ○ **B** 3/8 ○ **C** 1/2

5. Kai says 3/4 = 6/8 = 9/12. Is he right?

Circle one answer.

○ **A** No, they are different amounts

○ **B** Yes, they are the same amount

6. What number is at A on the number line?

Circle one answer.



○ **A** 1/4 ○ **B** 3 1/4 ○ **C** 3 1/2 ○ **D** 3

7. What number is at A on the number line?

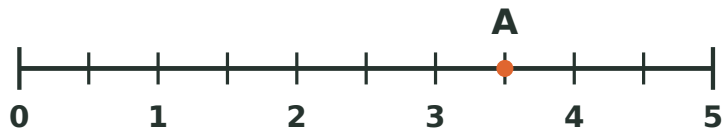
Circle one answer.



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

8. What number is at A on the number line?

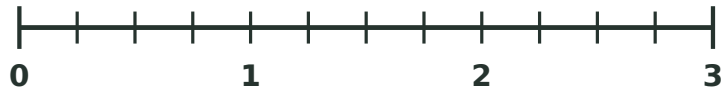
Circle one answer.



○ **A** 3 ○ **B** 3 1/2 ○ **C** 4 ○ **D** 1/2

9. How many jumps of 1/4 take you from 0 to 2 3/4?

Answer: ☐ jumps



Working:

10. A muffin recipe needs 3/4 of a cup of oats. Jai only has a 1/8 cup scoop. How many scoops does he need?

Answer: ☐ scoops

Working:

Answer key

Year 4 maths: Equivalent fractions and fractions on number lines (Hard) · Sheet 343178

1. 3

12 ÷ 3 = 4: every 3 twelfths make one quarter. 9 ÷ 3 = 3, so 9/12 = 3/4.

2. 9

4 × 3 = 12, so each quarter is 3 twelfths. 3 × 3 = 9, so 3/4 = 9/12.

3. B — 1/2

Use eighths: 1/2 = 4/8. So 1/2 is bigger than 3/8.

4. B — 3/8

Use eighths: 1/2 = 4/8 and 3/4 = 6/8. 3/8 is the smallest.

5. B — Yes, they are the same amount

Each quarter is 2 eighths and 3 twelfths, so 3/4 = 6/8 = 9/12.

6. B — 3 1/4

Each whole has 4 equal jumps, so each jump is 1/4. A is past 3, 1 more jump on: 3 1/4.

7. D — 2 1/3

Each whole has 3 equal jumps, so each jump is 1/3. A is past 2, 1 more jump on: 2 1/3.

8. B — 3 1/2

Each whole has 2 equal jumps, so each jump is 1/2. A is past 3, 1 more jump on: 3 1/2.

9. 11 jumps

Each whole is 4 jumps of 1/4. 2 wholes is 2 × 4 = 8 jumps, and 3 more makes 11.

10. 6 scoops

Each quarter is 2 eighths, so 3/4 = 6/8. Jai needs 6 scoops.