Year 4 maths: Equivalent fractions and fractions on number lines (Easy)

Maths · Fractions
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. 1/2 = ?/8. What is the missing top number?

Answer: ☐



Working:

2. 1/4 = ?/8. What is the missing top number?

Answer: ☐



Working:

3. Which bar shows the same amount as 1/2?

Circle one answer.



○ **A**



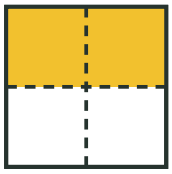
○ **B**



○ **C**

4. The square is cut into 4 equal parts. Which fraction is the same amount as the shaded part?

Circle one answer.



○ **A** 2/2 ○ **B** 1/2 ○ **C** 1/4

5. Is 2/8 the same amount as 1/4?

Circle one answer.

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

○ **B** Yes, they are the same amount

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6. Is 1/4 the same amount as 1/2?

Circle one answer.

○ **A** Yes, they are the same amount

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

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7. Which is bigger: 1/4 or 1/8?

Circle one answer.

○ **A** 1/4 ○ **B** 1/8

○ **C** They are the same

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

Circle one answer.



○ **A** 5/8 ○ **B** 3/4 ○ **C** 1/2 ○ **D** 5/7

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9. Count on by quarters. What comes next? 1/4, 1/2, 3/4, 1, ?

Circle one answer.

○ **A** 1 3/4 ○ **B** 1 1/4 ○ **C** 1 1/2 ○ **D** 1/5

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10. Mia swims lengths of the pool in halves. How many half lengths make 2 whole lengths?

Answer: ☐

Working:

Answer key

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1. 4

2 × 4 = 8, so each half is 4 eighths. 1 × 4 = 4, so 1/2 = 4/8.

2. 2

4 × 2 = 8, so each quarter is 2 eighths. 1 × 2 = 2, so 1/4 = 2/8.

3. A

Each half is 2 quarters, so 1/2 = 2/4: the bar with 2 of 4 parts shaded.

4. B — 1/2

2 of the 4 equal parts are shaded: 2/4. 2/4 = 1/2.

5. B — Yes, they are the same amount

Each quarter is 2 eighths, so 2/8 = 1/4.

6. B — No, they are different amounts

A quarter is half of a half, so 1/4 is smaller than 1/2. They are different amounts.

7. A — 1/4

Both wholes are the same size. Cut into 8 equal parts, the parts are smaller than cut into 4. So 1/4 is bigger than 1/8.

8. A — 5/8

There are 8 equal jumps from 0 to 1, so each jump is 1/8. A is 5 jumps from 0: 5/8.

9. B — 1 1/4

Each step is 1/4. 1 + 1/4 = 1 1/4. 4 quarters make 1 whole.

10. 4

Each whole is 2 jumps of 1/2. 2 wholes is 2 × 2 = 4 jumps.