Year 2 maths: Halves, quarters and eighths (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. What is a quarter of 20 bananas?

Answer: ☐ bananas

Working:

2. Ruby cut a square into 2 equal parts. Then she cut each part in half again. What is each small part called?

Circle one answer.

○ **A** A half ○ **B** A quarter ○ **C** A whole

3. Leo says, 'Half of 14 is 12, because I took 2 away.' What is half of 14 really?

Answer: ☐

Working:

4. Two pizzas are each cut into quarters. How many quarters are there altogether?

Answer: ☐ quarters

Working:

5. Ruby had $12. She spent half of it on a book and a quarter of it on a drink. How much money does she have left?

Answer: $ ____

Working:

6. Half of a number is 40. What is the number?

Answer: ____

Working:

7. Tom says one eighth of a pizza is bigger than one quarter, because 8 is more than 4. Is he right?

Circle one answer.

○ **A** No. An eighth is half of a quarter, so it is smaller.

○ **B** Yes, 8 is more than 4.

○ **C** No. They are the same size.

8. Nan cuts 5 sandwiches into quarters for a picnic. How many quarter pieces are there?

Answer: ____ quarters

Working:

9. Ivy and Sol have wraps that are the same size. Ivy ate one quarter of her wrap. Sol ate three quarters of his wrap. Who has more wrap LEFT?

Circle one answer.

○ **A** Ivy

○ **B** They have the same amount left

○ **C** Sol

10. Half of a lasagne goes to the neighbours. The other half is cut into 4 equal pieces, and Sol eats 1. What fraction of the WHOLE lasagne is left?

Circle one answer.

○ **A** three quarters ○ **B** five eighths ○ **C** three eighths

Answer key

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1. 5 bananas

A quarter means 4 equal groups. Half of 20 is 10, and half of 10 is 5. Check: 5 + 5 + 5 + 5 = 20.

2. B — A quarter

Half of a half is a quarter. The square is now in 4 equal parts, and each one is a quarter.

3. 7

Half means 2 equal groups, not 2 less. 7 + 7 = 14, so half of 14 is 7.

4. 8 quarters

Each pizza has 4 quarters. 4 + 4 = 8 quarters.

5. $3

Half of $12 is $6. A quarter of $12 is $3. She spent $6 + $3 = $9, so $12 - $9 = $3 is left.

6. 80

If half is 40, the whole is 2 halves: 40 + 40 = 80.

7. A — No. An eighth is half of a quarter, so it is smaller.

More equal parts means each part is smaller. Cut a quarter in half and you get 2 eighths.

8. 20 quarters

Each sandwich makes 4 quarters. Count by 4s, once for each sandwich: 4, 8, 12, 16, 20.

9. A — Ivy

Ivy ate 1 quarter, so 3 quarters of her wrap is left. Sol ate 3 quarters, so only 1 quarter is left. Ivy has more left.

10. C — three eighths

The whole lasagne would hold 8 pieces that size, so each piece is one eighth. 3 pieces are left: three eighths.