Year 3 maths: Fractions of shapes and groups (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. What is 2/3 of 18?

Answer: ☐

Working:

2. Three quarters of a 2 by 6 rectangle must be shaded. How many squares is that?

Answer: ☐ squares



Working:

3. Sam has 10 stickers. Kai has half as much again as Sam. How many stickers does Kai have?

Circle one answer.

○ **A** 30 ○ **B** 20 ○ **C** 15 ○ **D** 5

4. A puppy weighed 6 kg. A month later it weighed half as much again. How much did it weigh then?

Circle one answer.

○ **A** 18 kg ○ **B** 12 kg ○ **C** 3 kg ○ **D** 9 kg

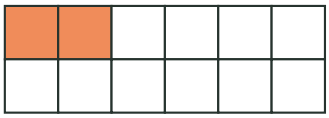
5. A farmer has 40 eggs. She sells half of them on Monday and a quarter of them on Tuesday. How many eggs are left?

Answer: ☐

Working:

6. This shape has 12 equal squares. 2 are shaded. How many more squares must be shaded so that three-quarters of it is shaded?

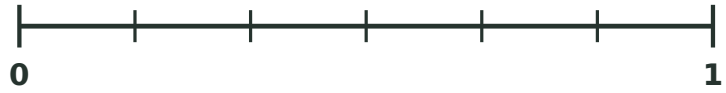
Circle one answer.



○ **A** 9 ○ **B** 10 ○ **C** 3 ○ **D** 7

7. This number line goes from 0 to 1. Which mark shows 1/3?

Circle one answer.



○ **A** the 1st mark ○ **B** the 2nd mark ○ **C** the 3rd mark

○ **D** the 4th mark

8. A strip has 14 equal squares. 2 are shaded. Then three-quarters of the white squares are shaded. How many squares are still white?

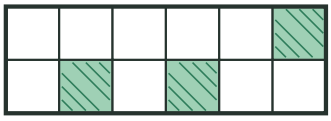
Circle one answer.



○ **A** 12 ○ **B** 9 ○ **C** 3 ○ **D** 11

9. A rectangle has 12 squares. 3 are shaded. How many more squares must be shaded so that three-quarters of the rectangle is shaded?

Circle one answer.



○ **A** 3 ○ **B** 12 ○ **C** 6 ○ **D** 9

10. A pizza is cut into 8 equal slices. Sam eats one-quarter of it. His friends eat 1 slice each. One-eighth of the pizza is left. How many friends ate pizza?

Circle one answer.

○ **A** 3 ○ **B** 5 ○ **C** 6 ○ **D** 7

Answer key

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1. 12

1/3 of 18 = 6, so 2/3 of 18 = 6 + 6 = 12.

2. 9 squares

12 squares. One quarter is 3. Three quarters is 9.

3. C — 15

Half of 10 is 5. Half as much again: 10 + 5 = 15.

4. D — 9 kg

Half of 6 kg is 3 kg. 6 + 3 = 9 kg.

5. 10

Half of 40 is 20. A quarter of 40 is 10. 20 + 10 = 30 sold, so 40 − 30 = 10 are left.

6. D — 7

Three-quarters of 12: 12 ÷ 4 = 3, then 3 × 3 = 9 squares. 2 are shaded, so 9 − 2 = 7 more.

7. B — the 2nd mark

6 jumps are sixths. 1/3 is the same as 2/6, so 1/3 is at the 2nd mark.

8. C — 3

14 − 2 = 12 are white. Three-quarters of 12 is 9, so 9 more are shaded. 12 − 9 = 3 are still white.

9. C — 6

One quarter of 12 is 3, so three-quarters is 9 squares. 3 are done: 9 − 3 = 6 more.

10. B — 5

1/4 of 8 slices is 2 slices. 8 − 2 − 1 = 5 slices, one each: 5 friends.