Year 4 maths: Scaling recipes and maps (Medium)

Maths · Number
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. Look at the recipe card. How many pieces of apple and kiwi fruit are there altogether?

Circle one answer.

Ingredient	Amount
Apples, cut into quarters	4
Kiwi fruit, cut in half	5
Melon, sliced	1

○ **A** 26 ○ **B** 9 ○ **C** 28 ○ **D** 18

2. 3 movie tickets cost $27. How much do 5 tickets cost?

Circle one answer.

○ **A** $135 ○ **B** $29 ○ **C** $45 ○ **D** $54

3. On a map, 1 cm shows 5 km. Two towns are 35 km apart. How far apart are they on the map?

Answer: _____ cm

Working:

4. On a map, 2 cm shows 6 km. How many km does 5 cm show?

Answer: ____ km

Working:

5. A car uses 5 L of petrol to go 50 km. How far can it go on 20 L?

Circle one answer.

○ **A** 100 km ○ **B** 10 km ○ **C** 65 km ○ **D** 200 km

6. 3 apples cost $2. How much do 12 apples cost?

Circle one answer.

○ **A** $11 ○ **B** $4 ○ **C** $24 ○ **D** $8

7. A necklace repeats 2 pink beads, then 1 blue bead. There are 24 beads. How many pink beads are there?

Circle one answer.

○ **A** 16 ○ **B** 12 ○ **C** 8 ○ **D** 2

8. A label is 5 cm by 2 cm. It is enlarged so its perimeter is 28 cm. What is the area of the enlarged label?

Circle one answer.

○ **A** 56 cm² ○ **B** 40 cm² ○ **C** 20 cm² ○ **D** 10 cm²

9. A sign says: Buy 4 doughnuts, get 1 free. Aiden pays for 10 doughnuts. How many doughnuts does he get?

Circle one answer.

○ **A** 8 ○ **B** 12 ○ **C** 11 ○ **D** 13

10. 15 stickers cost $10. How much do 21 stickers cost?

Circle one answer.

○ **A** $21 ○ **B** $4 ○ **C** $14 ○ **D** $16

Answer key

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1. A — 26
Apples: 4 × 4 = 16 quarters. Kiwi: 5 × 2 = 10 halves. 16 + 10 = 26.

2. C — $45
One ticket: $27 ÷ 3 = $9. 5 × $9 = $45.

3. 7 cm
35 ÷ 5 = 7 cm.

4. 15 km
1 cm shows 3 km. 5 × 3 = 15 km.

5. D — 200 km
1 L goes 10 km. 20 L goes 20 × 10 = 200 km.

6. D — $8
12 apples is 4 lots of 3. 4 × $2 = $8.

7. A — 16
One repeat has 3 beads. 24 ÷ 3 = 8 repeats. 8 × 2 = 16 pink beads.

8. B — 40 cm²
Old perimeter: 5 + 2 + 5 + 2 = 14 cm. 28 is double 14, so the sides double: 10 cm by 4 cm. Area: 10 × 4 = 40 cm².

9. B — 12
10 = 4 + 4 + 2: 2 full groups of 4, so 2 are free. 10 + 2 = 12.

10. C — $14
15 stickers for $10 is 3 stickers for $2. 21 stickers is 7 groups of 3: 7 × $2 = $14.