Year 4 maths: Best buys and tiered charges (Medium)

Maths · Money
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. A shop sells drink bottles in 4 deals. Which deal costs the least for each bottle?

Circle one answer.

○ **A** 6 drink bottles for $14.40
○ **B** 12 drink bottles for $24
○ **C** 10 drink bottles for $18
○ **D** 8 drink bottles for $17.60

2. Use the price table. Kai has $44 to spend on bandages. What is the greatest number of bandages he can buy?

Circle one answer.

Buy	Price
1 of bandages	$2
Pack of 3	$5
Pack of 8	$13.50

○ **A** 24 ○ **B** 22 ○ **C** 25 ○ **D** 26

3. Ben buys a book for $18.55 and pays with a $20 note. What is the fewest coins the change can be given in? (Coins: 5c, 10c, 20c, 50c, $1, $2.)

Circle one answer.

○ **A** 3 ○ **B** 4 ○ **C** 5 ○ **D** 6

4. At the scooter hire, the first half-hour costs $4 and each extra half-hour or part of a half-hour costs $3. How much does it cost to hire a scooter for 2 h 5 min?

Circle one answer.

○ **A** $20 ○ **B** $19 ○ **C** $13 ○ **D** $16

5. A cook makes fruit loaves. One batch needs 2 eggs, 100 g of sugar and 200 mL of milk. The pantry has 9 eggs, 310 g of sugar and 1.2 L of milk. How many whole batches can be made?

Circle one answer.

○ **A** 6 ○ **B** 4 ○ **C** 0 ○ **D** 3

6. Use the sale table. Which item gives the largest saving in dollars?

Circle one answer.

Item	Was	Now
Scooter	$138	$98
Camp stove	$143	$116
Sleeping bag	$314	$264
Boomerang	$328	$259

○ **A** camp stove ○ **B** boomerang
○ **C** sleeping bag ○ **D** scooter

7. At the paddle board hire, the first hour costs $3 and each extra hour or part of an hour costs $2. How much does it cost to hire a paddle board for 1 h 20 min?

Circle one answer.

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

8. Use the price table. Priya has $34.50 to spend on plant labels. What is the greatest number of plant labels she can buy?

Circle one answer.

Buy	Price
1 of plant labels	$3
Pack of 5	$12
Pack of 10	$25.50

○ **A** 13 ○ **B** 10 ○ **C** 11 ○ **D** 12

9. At the paddle board hire, the first hour costs $6 and each extra hour or part of an hour costs $5. How much does it cost to hire a paddle board for 3 h 40 min?

Circle one answer.

○ **A** $26 ○ **B** $16 ○ **C** $21 ○ **D** $24

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10. Use the price table. A class needs exactly 19 pegs, no more and no fewer. What is the least it can cost to buy exactly 19?

Circle one answer.

Buy	Price
1 of pegs	$1.50
Pack of 6	$7
Pack of 10	$10.50

○ **A** $28.50 ○ **B** $22 ○ **C** $22.50 ○ **D** $21

Answer key

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1. C — 10 drink bottles for $18

Cost of one: 6 drink bottles for $14.40 is $2.40 each; 8 drink bottles for $17.60 is $2.20 each; 10 drink bottles for $18 is $1.80 each; 12 drink bottles for $24 is $2 each. The lowest cost for each is $1.80, so the best buy is 10 drink bottles for $18.

2. D — 26

The best combination is 1 pack of 8 + 6 packs of 3. It costs $43.50 and gives 26 bandages, the most the money can buy. The 50c left cannot buy anything more.

3. B — 4

Use the biggest coin that fits each time: $1, 2 × 20c, 5c = $1.45. That is 4 coins.

4. D — $16

2 h 5 min is 5 half-hours charged, because a part of a half-hour counts as a whole one. The first costs $4; the other 4 cost 4 × $3 = $12. $4 + $12 = $16.

5. D — 3

Count the batches each ingredient makes: eggs 4; sugar 3; milk 6. The sugar runs out first, so only 3 whole batches can be made.

6. B — boomerang

Saving = was − now: scooter $138 − $98 = $40; camp stove $143 − $116 = $27; sleeping bag $314 − $264 = $50; boomerang $328 − $259 = $69. The largest saving is boomerang, $69.

7. B — $5

1 h 20 min is 2 hours charged, because a part of an hour counts as a whole one. The first costs $3; the other 1 cost 1 × $2 = $2. $3 + $2 = $5.

8. A — 13

The best combination is 2 packs of 5 + 3 singles. It costs $33 and gives 13 plant labels, the most the money can buy. The $1.50 left cannot buy anything more.

9. C — $21

3 h 40 min is 4 hours charged, because a part of an hour counts as a whole one. The first costs $6; the other 3 cost 3 × $5 = $15. $6 + $15 = $21.

10. B — $22

The cheapest way to get exactly 19 is 1 pack of 10 + 1 pack of 6 + 3 singles. That costs $10.50 + $7 + $1.50 + $1.50 + $1.50 = $22.