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

Maths · Money
Level: Hard

Student: _____ Date: _____

Instructions
- There are 9 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. Use the price table. Ava has $31.50 to spend on sausage rolls. What is the greatest number of sausage rolls she can buy?

Circle one answer.

Buy	Price
1 of sausage rolls	$3
Pack of 4	$9.50
Pack of 5	$13
Pack of 6	$12.50

○ **A** 10 ○ **B** 14 ○ **C** 4 ○ **D** 13 ○ **E** 12

2. Australian coins are 5c, 10c, 20c, 50c, $1 and $2. What is the fewest coins that make $7.65?

Circle one answer.

○ **A** 8 ○ **B** 5 ○ **C** 10 ○ **D** 7 ○ **E** 6

3. At the rowing boat hire, the first half-hour costs $3 and each extra half-hour or part of a half-hour costs $2. The most you pay in a day is $12. Isla's visit is 10:35 am to 1:40 pm. How much does she pay?

Circle one answer.

○ **A** $21 ○ **B** $15 ○ **C** $12 ○ **D** $13 ○ **E** $17

4. Use the table. A cook makes as many whole batches of lamingtons as possible. How many g of sugar are left over?

Circle one answer.

Ingredient	One batch	In the pantry
Sugar	150 g	1.2 kg
Butter	100 g	450 g
Eggs	3 eggs	22 eggs

○ **A** 0 g ○ **B** 600 g ○ **C** 1050 g ○ **D** 1200 g ○ **E** 750 g

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

Circle one answer.

Item	Was	Now
Boomerang	$217	$161
Camp stove	$834	$724
Tennis racquet	$409	$363
Scooter	$901	$604
Skateboard	$943	$710

○ **A** tennis racquet
○ **B** skateboard
○ **C** camp stove
○ **D** boomerang
○ **E** scooter

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6. Theo buys a lunch box for $15.20 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** 5 ○ **B** 4 ○ **C** 8 ○ **D** 6 ○ **E** 7

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7. Use the table. A cook makes as many whole batches of lamingtons as possible. How many g of flour are left over?

Circle one answer.

Ingredient	One batch	In the pantry
Eggs	3 eggs	7 eggs
Flour	200 g	1.4 kg
Butter	100 g	350 g

○ **A** 1200 g ○ **B** 400 g ○ **C** 1400 g ○ **D** 1000 g ○ **E** 0 g

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8. Australian coins are 5c, 10c, 20c, 50c, $1 and $2. What is the fewest coins that make $5.80?

Circle one answer.

○ **A** 7 ○ **B** 9 ○ **C** 5 ○ **D** 6 ○ **E** 8

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

Circle one answer.

Buy	Price
1 of snack bars	$3
Pack of 3	$7
Pack of 4	$8.50
Pack of 6	$15.50

○ **A** $41.50 ○ **B** $57 ○ **C** $41

○ **D** $62 ○ **E** $49.50

Answer key

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1. B — 14

The best combination is 2 packs of 6 + 2 singles. It costs $31 and gives 14 sausage rolls, the most the money can buy. The 50c left cannot buy anything more.

2. D — 7

Use the biggest coin that fits each time: 3 × $2, $1, 50c, 10c, 5c = $7.65. That is 7 coins.

3. C — $12

3 h 5 min is 7 half-hours charged, because a part of a half-hour counts as a whole one. The first costs $3; the other 6 cost 6 × $2 = $12. $3 + $12 = $15. The most is $12, so the charge is $12.

4. B — 600 g

Batches each ingredient makes: sugar 8; butter 4; eggs 7. The butter limits it to 4 batches. Sugar used: 4 × 150 g = 600 g. Left: 1200 − 600 = 600 g.

5. E — scooter

Saving = was − now: boomerang $217 − $161 = $56; camp stove $834 − $724 = $110; tennis racquet $409 − $363 = $46; scooter $901 − $604 = $297; skateboard $943 − $710 = $233. The largest saving is scooter, $297.

6. A — 5

Use the biggest coin that fits each time: 2 × $2, 50c, 20c, 10c = $4.80. That is 5 coins.

7. D — 1000 g

Batches each ingredient makes: eggs 2; flour 7; butter 3. The eggs limits it to 2 batches. Flour used: 2 × 200 g = 400 g. Left: 1400 − 400 = 1000 g.

8. D — 6

Use the biggest coin that fits each time: 2 × $2, $1, 50c, 20c, 10c = $5.80. That is 6 coins.

9. C — $41

The cheapest way to get exactly 19 is 4 packs of 4 + 1 pack of 3. That costs $8.50 + $8.50 + $8.50 + $8.50 + $7 = $41.