Year 3 maths: Multi-step word problems (Hard)

Maths · Number
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. Ivy has 7 fewer shells than Jade. Jade has double what Kit has. Kit has 5 more than Lou. Lou has 8 shells. How many shells does Ivy have?

Circle one answer.

○ **A** 13 ○ **B** 9 ○ **C** 33 ○ **D** 26 ○ **E** 19

2. Year 3 collected 120 cans. Class A collected 38, Class B 27 and Class C 30. Class D collected the rest. How many did Class D collect?

Answer: _____ cans

Class	Cans
A	38
B	27
C	30
D	?

Working:

3. Pens come in packs of a dozen. Ms Ray buys 3 packs and gives out 29 pens. How many pens are left?

Answer: _____ pens

Working:

4. A taxi charges a $5 booking fee plus $3 for each kilometre. How much does a 12 km trip cost?

Circle one answer.

○ **A** $20 ○ **B** $63 ○ **C** $96 ○ **D** $41 ○ **E** $36

5. A netball club has 35 players. There are 7 more juniors than seniors. How many seniors are in the club?

Circle one answer.

○ **A** 17 ○ **B** 42 ○ **C** 21 ○ **D** 28 ○ **E** 14

6. Year 4 voted for a class pet. The fish got 24 votes, which is 8 more than the rabbit. The guinea pig got half as many votes as the fish. The puppy got twice as many as the rabbit. The lizard got the fewest votes. Which of these could be the total number of votes?

Circle one answer.

○ **A** 96 ○ **B** 90 ○ **C** 80 ○ **D** 135 ○ **E** 100

7. Ollie is 132 cm tall. His younger sister Grace is 9 cm shorter than Ollie. His older brother Hamish is 14 cm taller than Ollie. What is the total of their three heights?

Circle one answer.

○ **A** 155 cm ○ **B** 373 cm ○ **C** 401 cm ○ **D** 269 cm ○ **E** 419 cm

8. A farmer collected 174 eggs. He kept 30 eggs for his family and packed the rest into cartons of 12 for the market. How many cartons did he fill?

Circle one answer.

○ **A** 14 ○ **B** 144 ○ **C** 12 ○ **D** 13 ○ **E** 17

9. Cars wait in one line at a red light. A red ute is 6th from the front and 11th from the back. How many cars are in the line?

Circle one answer.

○ **A** 17 ○ **B** 5 ○ **C** 15 ○ **D** 16 ○ **E** 12

10. A farm has 140 animals: sheep, cows and goats. There are 45 sheep, which is three times the number of goats. How many more cows than sheep are there?

Circle one answer.

○ **A** 15 ○ **B** 35 ○ **C** 50 ○ **D** 80 ○ **E** 60

Answer key

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1. E — 19
Lou: 8. Kit: 8 + 5 = 13. Jade: double 13 = 26. Ivy: 26 − 7 = 19.

2. 25 cans
38 + 27 + 30 = 95. 120 − 95 = 25.

3. 7 pens
3 packs of 12 = 36 pens. 36 − 29 = 7.

4. D — $41
The km: 12 × $3 = $36. Add the booking fee once: $36 + $5 = $41.

5. E — 14
Take off the 7 extra juniors: 35 − 7 = 28. Share 28 equally: 14 seniors (and 14 + 7 = 21 juniors).

6. B — 90
Rabbit 24 − 8 = 16. Guinea pig 24 ÷ 2 = 12. Puppy 16 × 2 = 32. Known: 24 + 16 + 12 + 32 = 84. The lizard got fewer than 12, so the total is between 85 and 95. Only 90 fits.

7. C — 401 cm
Grace: 132 − 9 = 123 cm. Hamish: 132 + 14 = 146 cm. Total: 132 + 123 + 146 = 401 cm.

8. C — 12
174 − 30 = 144 eggs to pack. 144 ÷ 12 = 12 cartons.

9. D — 16
From the front: 5 cars, then the ute. From the back: 10 cars, then the ute. 5 + 1 + 10 = 16. (6 + 11 counts the ute twice, so take 1 away.)

10. B — 35
Goats: 45 ÷ 3 = 15. Cows: 140 − 45 − 15 = 80. 80 − 45 = 35 more.