Year 3 maths: Litres and millilitres (Hard)

Maths · Measurement · 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. A 3 L bottle of water is shared at netball training. Six players each drink 400 mL. How much water is left?

Circle one answer.

○ **A** 2600 mL ○ **B** 2400 mL ○ **C** 600 mL ○ **D** 1600 mL ○ **E** 60 mL

2. A 2 L jug of water is used to fill a 750 mL vase and a 600 mL vase. How much water is left in the jug?

Circle one answer.

○ **A** 1250 mL ○ **B** 1350 mL ○ **C** 3 L 350 mL ○ **D** 650 mL ○ **E** 750 mL

3. At a sausage sizzle, Archie mixes 1 L 400 mL of orange juice with 850 mL of lemonade. How much drink does he make?

Circle one answer.

○ **A** 2 L 250 mL ○ **B** 1 L 485 mL ○ **C** 2 L 50 mL ○ **D** 550 mL ○ **E** 1 L 250 mL

4. Willow's water bottle holds 750 mL. She fills it 4 times in a day. How much water is that?

Circle one answer.

○ **A** 3 L ○ **B** 75 mL ○ **C** 30 L ○ **D** 3 L 750 mL ○ **E** 2 L 750 mL

5. A recipe needs a quarter of a litre of milk for each batch of pikelets. How many batches can be made from 1.5 L of milk?

Circle one answer.

○ **A** 4 ○ **B** 6 ○ **C** 60 ○ **D** 5 ○ **E** 2

6. A cooler holds 5 L of water. Sienna has already poured 3 L 250 mL into it. How much more water will fill it?

Circle one answer.

○ **A** 3 L 250 mL ○ **B** 1 L 750 mL ○ **C** 8 L 250 mL ○ **D** 2 L 750 mL ○ **E** 2 L 250 mL

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7. Kai uses a 250 mL cup to fill an empty 4 L bucket from a tap. Each fill and tip takes half a minute. How long does it take to fill the bucket?

Circle one answer.

○ **A** 16 minutes ○ **B** 32 minutes ○ **C** 8 minutes ○ **D** 4 minutes ○ **E** 2 minutes

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8. Two buckets each hold 800 mL. Bucket A has 260 mL of water and bucket B has 310 mL. Lily pours half of the water in A into B. How much more water is needed to fill B?

Circle one answer.

○ **A** 360 mL ○ **B** 230 mL ○ **C** 440 mL ○ **D** 490 mL ○ **E** 570 mL

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9. Two empty cube-shaped boxes hold 3 L and 36 L. Sasha fills the small box with rice twice and tips both lots into the big box. She wants the big box to be half full. How many more small boxes of rice does she need?

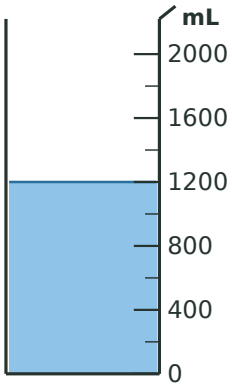
Circle one answer.

○ **A** 10 ○ **B** 4 ○ **C** 8 ○ **D** 12 ○ **E** 6

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10. Kane's 2 L jug has some water in it. He pours out one-third of the water, then adds 600 mL. Then he pours out three-quarters of the water that is in the jug. How much water is left?

Circle one answer.



○ **A** 1050 mL ○ **B** 350 mL ○ **C** 500 mL ○ **D** 200 mL ○ **E** 450 mL

Answer key

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1. C — 600 mL

The players drink 6 × 400 = 2400 mL. 3 L is 3000 mL. 3000 − 2400 = 600 mL.

2. D — 650 mL

The vases take 750 + 600 = 1350 mL. 2000 − 1350 = 650 mL.

3. A — 2 L 250 mL

1400 mL + 850 mL = 2250 mL. That is 2 L 250 mL.

4. A — 3 L

750 + 750 = 1500. 1500 + 1500 = 3000 mL. 3000 mL is 3 L.

5. B — 6

A quarter of a litre is 250 mL. 1.5 L is 1500 mL. 1500 mL holds six lots of 250 mL: 6 batches.

6. B — 1 L 750 mL

Count up from 3 L 250 mL: 750 mL makes 4 L, then 1 L more makes 5 L. 750 mL + 1 L = 1 L 750 mL.

7. C — 8 minutes

4 L = 4000 mL. 4 cups make 1 L, so 16 cups make 4 L. 16 half minutes is 8 minutes.

8. A — 360 mL

Half of 260 is 130. B has 310 + 130 = 440 mL. 800 − 440 = 360 mL more.

9. B — 4

Half of 36 L is 18 L. 18 ÷ 3 = 6 small boxes. 2 are already in, so 6 − 2 = 4 more.

10. B — 350 mL

The marks go up in 200 mL: the jug shows 1200 mL. One-third of 1200 is 400, leaving 800 mL. Add 600: 1400 mL. One-quarter of 1400 is 350, so three-quarters is 1050. 1400 − 1050 = 350 mL.