Steady Steps Maths

FREE UNIT TEST · TOPIC 7

FREE SAMPLE · UNIT TEST A

Time, Liquid Volume & Mass

Unit Test A · 40 marks · about 40 minutes

GRADE 3



Common Core 3.MD.A.1–2

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Name _____ Date _____

UNIT TEST A Time, Liquid Volume & Mass

40 marks · about 40 minutes · Common Core 3.MD.A.1–2

Name _____ **Date** _____

Instructions

- Answer **every** question in the space given.
- Show your working: in Sections B and C you get marks for your method, even if the final answer is wrong.
- The number in brackets, like [2], shows how many marks a question is worth.
- You have about 40 minutes. A calculator is **not** needed.
- Check your answers if you finish early.

Your score

Section	Questions	Marks	Your score
A · Quick questions	1–10	10	
B · Show your working	11–16	17	
C · Problem solving	17–18	13	
Total		**40**	

Percentage: _____ % 85%+ excellent · 65–84% good · 45–64% keep practising · below 45% revise the packs first

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SECTION A Quick questions

1 mark each · write your answer in the box

1 What time does the clock show? [1]



Answer

2 What time does the clock show? [1]



Answer

3 Write in digits: "half past three" [1]

Answer

4 How many minutes is it from 1:15 to 1:55? [1]

Answer

5 What time is it 20 minutes after 9:50? [1]

Answer

6 A jug holds 3 L. How much water do 3 full jugs hold? [1]

Answer

7 Work out 700 g − 200 g [1]

Answer

8 Circle the better estimate for a cat: **4 g** or **4 kg** [1]

Answer

9 Work out 23 kg + 11 kg [1]

Answer

10 A film ends at 4:10. It lasted 50 minutes. What time did it start? [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Draw the hands on the clock to show 11:08. [2]



Answer

12 Fares's swimming lesson starts at 3:40 and ends at 4:10. Use the number line to find how long it lasts. [3]



Answer

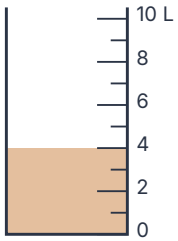
13 A bag of apples has a mass of 550 g. A bag of grapes has a mass of 150 g. (a) What is their total mass? (b) How much heavier is the bag of apples? [3]

Answer

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14 The jug shows how much water one bucket holds. [3]
(a) How much does one bucket hold? (b) Tariq pours 8 full buckets into a tank. How much water is in the tank? (c) 8 L is used for the garden. How much is left?

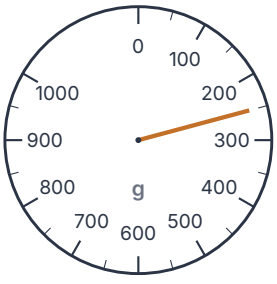


Answer

15 Rana says 40 minutes after 5:25 is 5:65. What went wrong? Write the right time. [2]

Answer

16 The scale shows the mass of a melon. [4]
(a) What is the mass of the melon? (b) A pineapple is 150 g heavier than the melon. What is the mass of the pineapple?



Answer

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SECTION C

Problem solving

Longer questions with several steps

17 A class goes on a trip. The bus leaves school at 9:20 and the journey takes 50 minutes. [7]

(a) What time does the bus arrive?

(b) The class visits a farm for 40 minutes. What time does the visit end?

(c) Lunch starts straight after the visit and ends at 11:15. How long is lunch?

(d) Draw hands on the clock to show the time lunch ends.



Answer _____

18 A paddling pool holds 27 L. It already has 9 L of water in it. [6]

(a) How many more litres are needed to fill it?

(b) Bilal fills it using a 3 L bucket. How many full buckets are needed?

(c) Shade the jug to show 3 L.



Answer _____

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Mark scheme

For parents · give the marks shown; method marks can be given even if the final answer is wrong

Tip: Give method marks generously when the working shows the right idea. If a mistake early on is carried through correctly, give the later marks.

Q	Answer	Marks	How to award the marks
1	5:35	1	
2	12:27	1	Accept the time to the exact minute only.
3	3:30	1	
4	40 minutes	1	
5	10:10	1	
6	9 L	1	Unit needed.
7	500 g	1	Unit needed.
8	4 kg	1	
9	34 kg	1	Unit needed.
10	3:20	1	
11	long hand 3 marks after the 1; short hand just past 11	2	1 mark for the long hand; 1 mark for the short hand in the right place (not exactly on a number).
12	20 + 10 = 30 minutes	3	1 mark for the jump to the hour; 1 mark for the second jump; 1 mark for the total.
13	(a) 700 g (b) 400 g	3	(a) 1 mark. (b) 2 marks: 1 for subtracting. Units needed.
14	(a) 4 L (b) 8 × 4 = 32 L (c) 32 − 8 = 24 L	3	1 mark each part. Follow through.
15	An hour has 60 minutes, not 100. The right time is 6:05.	2	1 mark for the reason; 1 mark for the right time.
16	(a) 250 g (b) 400 g	4	(a) 2 marks: 1 for the scale step (each small mark is 50 g). (b) 2 marks: 1 for adding. Follow through.
17	(a) 10:10 (b) 10:50 (c) 25 minutes (d) clock showing 11:15	7	(a) 2 marks. (b) 2 marks. (c) 2 marks: 1 for a correct method (e.g. a number line). (d) 1 mark. Follow through.
18	(a) 27 − 9 = 18 L (b) 18 ÷ 3 = 6 buckets (c) shaded up to the 3 L mark	6	(a) 2 marks. (b) 3 marks: 1 for choosing ÷ (or counting in 3s), 1 for the fact, 1 for the answer. (c) 1 mark. Follow through.

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What to revise

Circle the questions your child lost marks on, then go back to the matching part of the pack

Questions	Skill	Revise in	✓ / ×
1, 2, 3, 11	Telling the time	Pack 1 · Telling Time to the Minute, Parts 1–4	
4, 5, 10, 12, 15	How long?	Pack 2 · Elapsed Time, Parts 1–4	
6, 7, 9, 13	Volume and mass problems	Pack 3 · Liquid Volume & Mass, Part 4	
8	Choose the best estimate	Pack 3 · Liquid Volume & Mass, Part 3	
14	Reading a jug and volume problems	Pack 3 · Liquid Volume & Mass, Parts 1 and 4	
16	Reading a scale	Pack 3 · Liquid Volume & Mass, Parts 1–2	
17	Elapsed time in a day	Pack 2 · Elapsed Time, Parts 1–4 and Pack 1 · Telling Time to the Minute, Parts 1–4	
18	Liquid volume problems	Pack 3 · Liquid Volume & Mass, Parts 1–4	

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