Steady Steps Maths

FREE UNIT TEST · TOPIC 8

FREE SAMPLE · UNIT TEST A

Measurement & Line Plots

Unit Test A · 40 marks · about 40 minutes

GRADE 5



Common Core 5.MD.A.1, 5.MD.B.2

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Name _____ Date _____

UNIT TEST A

Measurement & Line Plots

40 marks · about 40 minutes · Common Core 5.MD.A.1, 5.MD.B.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. Convert 1.7 km to metres. [1]

Answer

2. Convert 664 cm to metres. [1]

Answer

3. Convert 5.6 kg to grams. [1]

Answer

4. Convert 6,800 mL to litres. [1]

Answer

5. How many inches are in 4 feet? [1]

Answer

6. How many quarts are in 5 gallons? [1]

Answer

7. How many pounds is 64 ounces? [1]

Answer

8. How many feet are in 6 yards? [1]

Answer

9. How many inches is 6 ft 4 in? [1]

Answer

10. Write 3 m 90 cm in centimetres. [1]

Answer

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SECTION B Show your working

Marks are given for your method

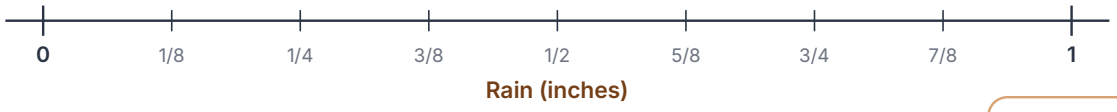
11 Which is longer, 1.4 km or 1,350 m? By how many metres? [2]

Answer

12 These are the amounts of rain (in inches) on 8 days: [3]

$\frac{1}{4}$, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{7}{8}$, $\frac{7}{8}$, $\frac{1}{4}$, $\frac{1}{4}$, 1

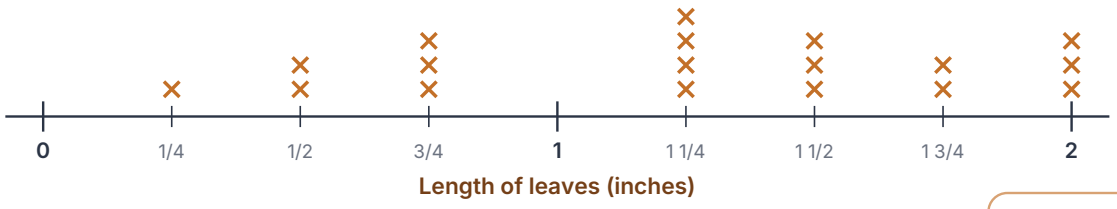
Show the data on the line plot. Use an X for each day.



Answer

13 The line plot shows the lengths of some leaves. [3]

(a) Which length has the most leaves? (b) What is the difference between the longest and shortest leaf? (c) How many leaves are longer than 1 inch?



Answer

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14 Tim says 4 kg = 400 g. [3]

(a) What mistake has he made? (b) Write the correct number of grams. (c) Explain how you know.

Answer

15 A party punch needs 9 cups of juice. 1 pint = 2 cups. How many pints is that? [2]

Answer

16 Some beakers hold these amounts of water (in litres): [4]

$\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{4}$, 1

(a) How much water is there altogether? (b) If the water were shared equally between the 4 beakers, how much would each hold?

Answer

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SECTION C Problem solving

Longer questions with several steps

17 In a relay race, 4 runners each run 750 m. [7]

(a) How far do they run altogether, in metres? (b) Write your answer to (a) in kilometres.

(c) After the race each runner drinks 350 mL of water. How many litres is that altogether?

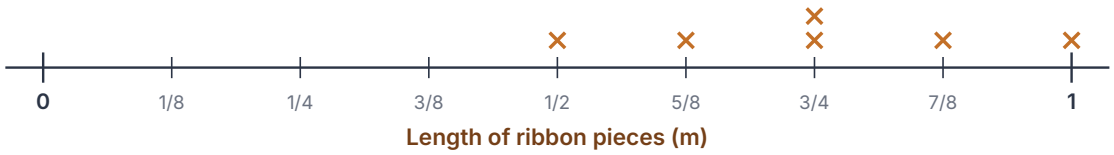
(d) Water comes in 0.75 L bottles. How many bottles must they open?

Answer

18 Ella cuts 6 pieces of ribbon. Their lengths (in metres) are shown on the line plot. [6]

(a) What is the total length of ribbon? (b) How much longer is the longest piece than the shortest?

(c) If the same total length were cut into 6 equal pieces, how long would each be?



Length of ribbon pieces (m)

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	1,700 m	1	
2	6.64 m	1	
3	5,600 g	1	
4	6.8 L	1	
5	48 in	1	1 ft = 12 in
6	20 qt	1	1 gal = 4 qt
7	4 lb	1	1 lb = 16 oz
8	18 ft	1	1 yd = 3 ft
9	76 in	1	
10	390 cm	1	
11	1.4 km, by 50 m	2	1 mark for 1.4 km = 1,400 m; 1 mark for the answer.
12	One X above each value: $\frac{1}{4}$ × 3, $\frac{3}{8}$ × 1, $\frac{7}{8}$ × 3, 1 × 1	3	3 marks all correct; 2 marks with one mistake; 1 mark with two.
13	(a) $1\frac{1}{4}$ inches (b) $1\frac{3}{4}$ inches (c) 12	3	1 mark each part.
14	(a) He multiplied by 100 instead of 1,000. (b) 4,000 g (c) 1 kg = 1,000 g, so multiply by 1,000.	3	1 mark each part.
15	$4\frac{1}{2}$ pints	2	1 mark for 9 ÷ 2; 1 mark for the answer.
16	(a) 3 L (b) $\frac{3}{4}$ L	4	(a) 2 marks: 1 for a correct method. (b) 2 marks: 1 for (a) ÷ 4.
17	(a) 3,000 m (b) 3 km (c) 1.4 L (d) 2	7	(a) 2 marks. (b) 1 mark. (c) 2 marks: 1 for the total in mL. (d) 2 marks: 1 for comparing with the bottle size; a part-bottle still needs a whole bottle.
18	(a) $4\frac{1}{2}$ m (b) $\frac{1}{2}$ m (c) $\frac{3}{4}$ m	6	(a) 2 marks: 1 for a correct method. (b) 2 marks. (c) 2 marks: 1 for (a) ÷ 6.

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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, 10, 11	Metric length	Pack 1 · Converting Units, Part 1	
3, 4, 14	Metric mass and capacity	Pack 1 · Converting Units, Part 2	
5, 6, 7, 8, 15	US customary units	Pack 1 · Converting Units, Part 3	
9	Multi-step conversions	Pack 1 · Converting Units, Part 4	
12	Making a line plot	Pack 2 · Line Plots with Fractions, Parts 2 and 4	
13	Reading a line plot	Pack 2 · Line Plots with Fractions, Part 1	
16	Totals and equal shares	Pack 2 · Line Plots with Fractions, Part 3	
17	Multi-step conversions	Pack 1 · Converting Units, Parts 1, 2 and 4	
18	Line plots in eighths	Pack 2 · Line Plots with Fractions, Parts 3 and 4	

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