Steady Steps Maths

FREE UNIT TEST · TOPIC 11

FREE SAMPLE · UNIT TEST A

Shapes & Equal Shares

Unit Test A · 40 marks · about 40 minutes

GRADE 1



Common Core 1.G.A.1, 1.G.A.2, 1.G.A.3

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Name _____ Date _____

UNIT TEST A Shapes & Equal Shares

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

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.
- A grown-up may read each question aloud, but should not help with the maths.

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

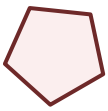
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SECTION A Quick questions

1 mark each · write your answer in the box

1 How many sides does this shape have? [1]

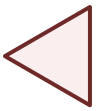


Answer

2 How many corners does a trapezoid have? [1]

Answer

3 What is the name of this shape? [1]



Answer

4 Is a circle a closed shape? Write yes or no. [1]

Answer

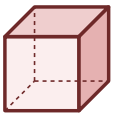
5 Does turning a triangle change its name? Write yes or no. [1]

Answer

6 2 half-circles joined at their straight sides make what shape? [1]

Answer

7 Name this solid shape. [1]



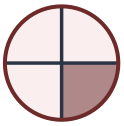
Answer

8 Are the shares equal? Write yes or no. [1]



Answer

9 Is one half or one fourth shaded? [1]



Answer

10 How many halves make a whole? [1]

Answer

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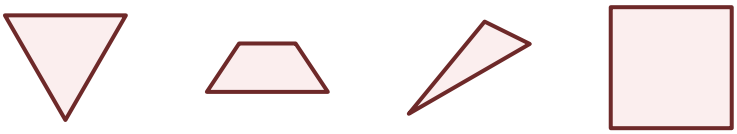
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SECTION B Show your working

Marks are given for your method

11 Draw a closed shape with 3 straight sides. [2]

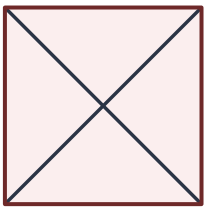
12 Which of these are triangles? Write the letters. [3]



A B C D

Answer

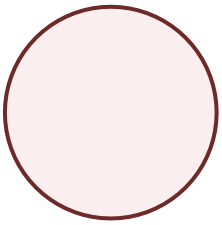
13 (a) How many small pieces make this shape? (b) What are the small pieces called? (c) What is the big shape called? [3]



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Name _____ Date _____

14 (a) Draw 1 line to cut the circle into halves. (b) Draw lines to cut the rectangle into fourths. [3]

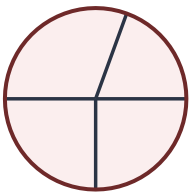


(a)



(b)

15 Sara says this shape is cut into fourths. Is Sara right? Explain. [2]



Answer

16 (a) Which is bigger: half of a pie or a fourth of the same pie? [4]
(b) A pie is cut into 4 equal shares. What is each share called?
(c) How many fourths make a whole pie? (d) Is a quarter the same as a fourth?

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SECTION C Problem solving

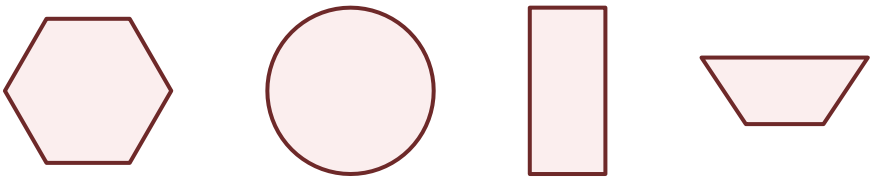
Longer questions with several steps

17 Look at shapes A, B, C and D. [7]

(a) Which shape has the most sides? (b) Which shapes have 4 sides?

(c) Which shape has no corners?

(d) Shape C has been turned. Is it still a rectangle? How do you know?



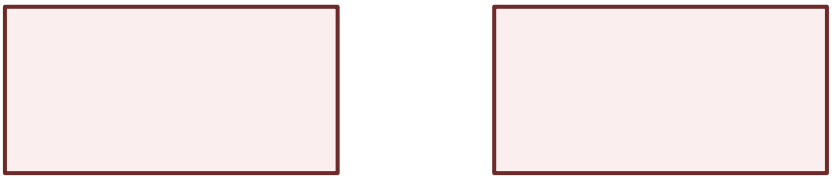
A B C D

18 Ali and Noor share a rectangular slice of toast equally. [6]

(a) Draw a line on the first rectangle to cut it into halves.

(b) Two more friends come. Draw lines on the second rectangle to cut it into fourths.

(c) Are the shares bigger when it is cut into halves or into fourths? Why?



(a) (b)

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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	1	
2	4	1	
3	triangle	1	Accept a correct name even if the child adds “turned”.
4	yes	1	
5	no	1	
6	a circle	1	
7	a cube	1	
8	no	1	
9	one fourth (one quarter)	1	
10	2	1	
11	a triangle	2	1 mark for a closed shape (no gaps); 1 mark for exactly 3 straight sides.
12	A, C	3	1 mark for each correct letter; 1 mark if no wrong letters are given.
13	(a) 4 (b) triangles (c) a square	3	1 mark each.
14	(a) a straight line through the centre (b) 4 equal shares, e.g. one line down and one across the middle	3	(a) 1 mark. (b) 2 marks: 1 for 4 shares, 1 for equal shares.
15	No: the shares are not the same size.	2	1 mark for “no”; 1 mark for “the shares are not equal / not the same size”.
16	(a) half (b) a fourth (or a quarter) (c) 4 (d) yes	4	1 mark each.
17	(a) A (b) C, D (c) B (d) yes: same sides and corners; turning does not change a shape	7	(a) 1. (b) 2 (1 if one is missing). (c) 1. (d) 3: 1 for yes, 1 for sides/corners, 1 for “turning does not change it”.
18	(a) one line through the middle (b) 4 equal shares (c) halves: fewer shares, bigger shares	6	(a) 2: 1 for 2 shares, 1 for equal. (b) 2: 1 for 4 shares, 1 for equal. (c) 2: 1 for halves, 1 for the reason.

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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, 4	Sides and corners	Pack 1 · Shape Attributes, Part 1	
3	Naming shapes	Pack 1 · Shape Attributes, Part 2	
5	What makes a shape	Pack 1 · Shape Attributes, Parts 2 and 3	
6	Two or more make one	Pack 2 · Putting Shapes Together, Part 1	
7	Solid shapes	Pack 2 · Putting Shapes Together, Part 3	
8, 15	Equal or not?	Pack 3 · Halves & Fourths, Part 1	
9	Half or fourth?	Pack 3 · Halves & Fourths, Part 2	
10, 16	Thinking about shares	Pack 3 · Halves & Fourths, Part 4	
11	Drawing shapes	Pack 1 · Shape Attributes, Part 4	
12	Sorting shapes	Pack 1 · Shape Attributes, Part 3	
13	Counting the pieces	Pack 2 · Putting Shapes Together, Part 2	
14	Making equal shares	Pack 3 · Halves & Fourths, Part 3	
17	Shape attributes	Pack 1 · Shape Attributes, Parts 1–3	
18	Halves and fourths	Pack 3 · Halves & Fourths, Parts 3 and 4	

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