

Grade 1 Math Workbook

10 lessons · printable · answer key at the back

Name _____ Date _____

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Adding within 10

WORKED EXAMPLE

$$2 + 6 = \underline{8}$$

1. Addition

Work out each sum.

- | | | | | | | | |
|----|-----------------------------|----|-----------------------------|----|-----------------------------|----|-----------------------------|
| 1 | $2 + 2 = \underline{\quad}$ | 2 | $1 + 3 = \underline{\quad}$ | 3 | $5 + 2 = \underline{\quad}$ | 4 | $4 + 2 = \underline{\quad}$ |
| 5 | $4 + 0 = \underline{\quad}$ | 6 | $7 + 1 = \underline{\quad}$ | 7 | $1 + 1 = \underline{\quad}$ | 8 | $5 + 1 = \underline{\quad}$ |
| 9 | $5 + 5 = \underline{\quad}$ | 10 | $0 + 6 = \underline{\quad}$ | 11 | $2 + 5 = \underline{\quad}$ | 12 | $3 + 3 = \underline{\quad}$ |
| 13 | $2 + 3 = \underline{\quad}$ | 14 | $8 + 0 = \underline{\quad}$ | | | | |

2. Word problems

Read each problem. Write the answer.

- 15 Zoe had 10 pencils before buying 2 more at the library.

How many pencils does Zoe have now?

- 16 First Leo bought 5 stickers, and then 4 more.

How many stickers does Leo have altogether?

Subtracting within 10

WORKED EXAMPLE

$$7 - 1 = \underline{6}$$

3. Subtraction

Work out each difference.

- | | | | | | | | |
|----|-----------------------------|----|-----------------------------|----|-----------------------------|----|-----------------------------|
| 1 | $5 - 4 = \underline{\quad}$ | 2 | $4 - 1 = \underline{\quad}$ | 3 | $8 - 7 = \underline{\quad}$ | 4 | $2 - 0 = \underline{\quad}$ |
| 5 | $3 - 2 = \underline{\quad}$ | 6 | $8 - 6 = \underline{\quad}$ | 7 | $4 - 0 = \underline{\quad}$ | 8 | $9 - 5 = \underline{\quad}$ |
| 9 | $6 - 6 = \underline{\quad}$ | 10 | $7 - 5 = \underline{\quad}$ | 11 | $5 - 1 = \underline{\quad}$ | 12 | $3 - 1 = \underline{\quad}$ |
| 13 | $8 - 5 = \underline{\quad}$ | 14 | $3 - 3 = \underline{\quad}$ | | | | |

4. Word problems

Read each problem. Write the answer.

- 15 Out of 9 cookies, Leo gave away 8.

How many cookies does Leo have left?

- 16 Leo set out with 8 apples and ended up giving away 6 of them.

How many apples are left now?

Making 10

WORKED EXAMPLE

$$9 + \underline{1} = 10$$

5. Make ten

Write the number that makes each one.

$1 \quad 7 + \underline{\quad} = 10$

$2 \quad 8 + \underline{\quad} = 10$

$3 \quad 3 + \underline{\quad} = 10$

$4 \quad 4 + \underline{\quad} = 10$

$5 \quad 1 + \underline{\quad} = 10$

$6 \quad 6 + \underline{\quad} = 10$

$7 \quad 2 + \underline{\quad} = 10$

$8 \quad 5 + \underline{\quad} = 10$

Adding within 20

WORKED EXAMPLE

$$6 + 2 = \underline{8}$$

6. Addition

Work out each sum.

1 $14 + 0 = \underline{\quad}$

2 $6 + 6 = \underline{\quad}$

3 $12 + 0 = \underline{\quad}$

4 $1 + 12 = \underline{\quad}$

5 $12 + 8 = \underline{\quad}$

6 $2 + 9 = \underline{\quad}$

7 $4 + 10 = \underline{\quad}$

8 $2 + 3 = \underline{\quad}$

9 $0 + 15 = \underline{\quad}$

10 $8 + 8 = \underline{\quad}$

11 $4 + 0 = \underline{\quad}$

12 $1 + 1 = \underline{\quad}$

13 $2 + 15 = \underline{\quad}$

14 $5 + 15 = \underline{\quad}$

15 $3 + 11 = \underline{\quad}$

16 $16 + 1 = \underline{\quad}$

17 $4 + 4 = \underline{\quad}$

18 $7 + 8 = \underline{\quad}$

19 $1 + 11 = \underline{\quad}$

7. Word problems

Read each problem. Write the answer.

- 20 Zoe had 9 pencils before buying 4 more at the corner shop.

How many pencils does Zoe have now?

- 21 Maya has 5 stickers while Leo has 3 stickers.

Between the two of them, how many stickers are there?

Subtracting within 20

WORKED EXAMPLE

$$13 - 9 = \underline{4}$$

8. Subtraction

Work out each difference.

1 $10 - 0 = \underline{\quad}$

2 $15 - 11 = \underline{\quad}$

3 $4 - 4 = \underline{\quad}$

4 $19 - 5 = \underline{\quad}$

5 $14 - 2 = \underline{\quad}$

6 $17 - 3 = \underline{\quad}$

7 $6 - 2 = \underline{\quad}$

8 $18 - 3 = \underline{\quad}$

9 $14 - 10 = \underline{\quad}$

10 $16 - 13 = \underline{\quad}$

11 $7 - 6 = \underline{\quad}$

12 $12 - 8 = \underline{\quad}$

13 $14 - 8 = \underline{\quad}$

14 $5 - 5 = \underline{\quad}$

9. Word problems

Read each problem. Write the answer.

- 15 Nina started with 5 stickers and gave away 3.

How many stickers does Nina have left?

- 16 Out of 8 stickers, Ava gave away 4.

How many stickers does Ava have left?

Missing Numbers

WORKED EXAMPLE

$$\underline{1} + 15 = 16$$

10. Missing numbers

Write the missing number in each one.

1 $\underline{\quad} + 12 = 14$

2 $6 + \underline{\quad} = 16$

3 $\underline{\quad} + 5 = 5$

4 $\underline{\quad} + 7 = 14$

5 $1 + \underline{\quad} = 8$

6 $14 + \underline{\quad} = 16$

7 $16 + \underline{\quad} = 18$

8 $13 + \underline{\quad} = 14$

9 $7 + \underline{\quad} = 17$

10 $12 + \underline{\quad} = 12$

11 $9 + \underline{\quad} = 15$

12 $\underline{\quad} + 4 = 11$

13 $7 + \underline{\quad} = 9$

14 $10 + \underline{\quad} = 20$

15 $15 + \underline{\quad} = 17$

16 $\underline{\quad} + 5 = 7$

17 $\underline{\quad} + 2 = 19$

18 $4 + \underline{\quad} = 10$

19 $\underline{\quad} + 8 = 9$

20 $1 + \underline{\quad} = 19$

21 $\underline{\quad} + 14 = 17$

22 $\underline{\quad} + 10 = 11$

23 $12 + \underline{\quad} = 19$

11. Missing numbers

Write the missing number in each one.

24 $9 - \underline{\quad} = 6$

25 $15 - \underline{\quad} = 13$

26 $8 - \underline{\quad} = 0$

27 $\underline{\quad} - 15 = 5$

28 $9 - \underline{\quad} = 5$

29 $15 - \underline{\quad} = 3$

30 $20 - \underline{\quad} = 20$

31 $\underline{\quad} - 3 = 3$

32 $\underline{\quad} - 1 = 14$

33 $\underline{\quad} - 0 = 2$

34 $18 - \underline{\quad} = 9$

35 $\underline{\quad} - 9 = 4$

36 $\underline{\quad} - 0 = 4$

37 $\underline{\quad} - 11 = 9$

38 $16 - \underline{\quad} = 2$

39 $\underline{\quad} - 2 = 6$

40 $20 - \underline{\quad} = 1$

41 $\underline{\quad} - 10 = 7$

42 $9 - \underline{\quad} = 9$

43 $\underline{\quad} - 4 = 16$

44 $\underline{\quad} - 4 = 9$

45 $13 - \underline{\quad} = 1$

46 $\underline{\quad} - 10 = 10$

47 $\underline{\quad} - 1 = 17$

WORKED EXAMPLE

$$50 + 1 \rightarrow \underline{51}$$

12. Reading expanded form

Write the number each expanded form makes.

1 $50 \rightarrow \underline{\quad}$

2 $90 + 4 \rightarrow \underline{\quad}$

3 $50 + 8 \rightarrow \underline{\quad}$

4 $70 + 9 \rightarrow \underline{\quad}$

5 $30 + 9 \rightarrow \underline{\quad}$

6 $30 + 3 \rightarrow \underline{\quad}$

7 $30 + 1 \rightarrow \underline{\quad}$

8 $20 + 6 \rightarrow \underline{\quad}$

9 $40 + 8 \rightarrow \underline{\quad}$

10 $90 + 8 \rightarrow \underline{\quad}$

11 $40 + 4 \rightarrow \underline{\quad}$

12 $90 + 9 \rightarrow \underline{\quad}$

13 $40 + 1 \rightarrow \underline{\quad}$

14 $70 + 2 \rightarrow \underline{\quad}$

15 $80 \rightarrow \underline{\quad}$

16 $10 + 4 \rightarrow \underline{\quad}$

17 $70 + 6 \rightarrow \underline{\quad}$

18 $60 + 9 \rightarrow \underline{\quad}$

19 $60 + 4 \rightarrow \underline{\quad}$

20 $40 + 2 \rightarrow \underline{\quad}$

21 $80 + 4 \rightarrow \underline{\quad}$

22 $10 + 5 \rightarrow \underline{\quad}$

23 $90 + 2 \rightarrow \underline{\quad}$

24 $40 + 3 \rightarrow \underline{\quad}$

25 $80 + 6 \rightarrow \underline{\quad}$

26 $30 + 4 \rightarrow \underline{\quad}$

27 $30 + 5 \rightarrow \underline{\quad}$

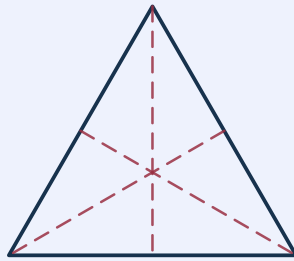
28 $40 \rightarrow \underline{\quad}$

29 $30 + 8 \rightarrow \underline{\quad}$

30 $30 \rightarrow \underline{\quad}$

Naming Shapes

WORKED EXAMPLE



pentagon

square

triangle

13. Name the shape

Circle the name of each shape.

1

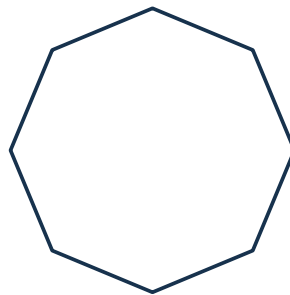


octagon

pentagon

rectangle

2

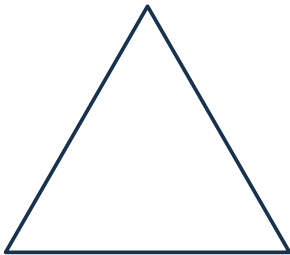


hexagon

octagon

rectangle

3

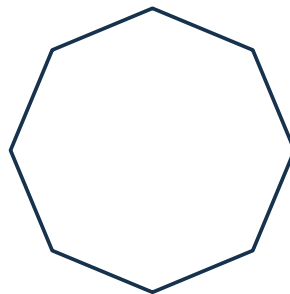


octagon

square

triangle

4

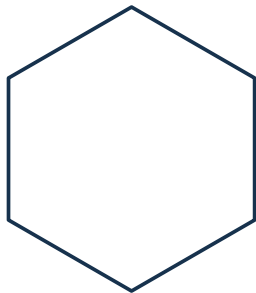


octagon

pentagon

rectangle

5

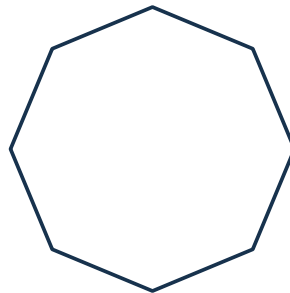


hexagon

rectangle

triangle

6



octagon

rectangle

triangle

Word Problems

WORKED EXAMPLE

Between them, Maya has 7 stickers and Zoe has 3.

How many stickers do they have altogether?

ANSWER: $7 + 3 = 10$ stickers

14. Word problems

Read each problem. Write the answer.

- 1 Leo was given 7 pencils near the library, then 4 more.

How many pencils does Leo have now?

- 2 First Maya collected 12 cookies, and then 8 more.

How many cookies does Maya have altogether?

15. Word problems

Read each problem. Write the answer.

- 3 Zoe started with 9 apples and ate 7.

How many apples does Zoe have left?

- 4 Leo set out with 9 cookies and ended up giving away 4 of them.

How many cookies are left now?

Review: Adding and Subtracting

WORKED EXAMPLE

$$2 + 11 = \underline{13}$$

16. Addition

Work out each sum.

1 $4 + 6 = \underline{\quad}$

2 $0 + 12 = \underline{\quad}$

3 $10 + 10 = \underline{\quad}$

4 $4 + 8 = \underline{\quad}$

5 $2 + 16 = \underline{\quad}$

6 $12 + 5 = \underline{\quad}$

7 $6 + 12 = \underline{\quad}$

17. Subtraction

Work out each difference.

8 $15 - 5 = \underline{\quad}$

9 $6 - 4 = \underline{\quad}$

10 $17 - 9 = \underline{\quad}$

11 $17 - 1 = \underline{\quad}$

12 $20 - 19 = \underline{\quad}$

13 $12 - 5 = \underline{\quad}$

14 $19 - 8 = \underline{\quad}$

18. Word problems

Read each problem. Write the answer.

- 15 First Leo was given 8 pencils, and then 4 more.

How many pencils does Leo have altogether?

- 16 Zoe started with 5 cookies and gave away 3.

How many cookies does Zoe have left?

Answer Key (1 of 4)

Adding within 10

Addition

1. $2 + 2 = 4$
2. $1 + 3 = 4$
3. $5 + 2 = 7$
4. $4 + 2 = 6$
5. $4 + 0 = 4$
6. $7 + 1 = 8$
7. $1 + 1 = 2$
8. $5 + 1 = 6$
9. $5 + 5 = 10$
10. $0 + 6 = 6$
11. $2 + 5 = 7$
12. $3 + 3 = 6$
13. $2 + 3 = 5$
14. $8 + 0 = 8$

Word problems

15. $10 + 2 = 12$ pencils
16. $5 + 4 = 9$ stickers

Subtracting within 10

Subtraction

1. $5 - 4 = 1$
2. $4 - 1 = 3$
3. $8 - 7 = 1$
4. $2 - 0 = 2$
5. $3 - 2 = 1$
6. $8 - 6 = 2$
7. $4 - 0 = 4$
8. $9 - 5 = 4$
9. $6 - 6 = 0$
10. $7 - 5 = 2$
11. $5 - 1 = 4$
12. $3 - 1 = 2$
13. $8 - 5 = 3$
14. $3 - 3 = 0$

Word problems

15. $9 - 8 = 1$ cookie

Subtracting within 10 (continued)

Word problems (continued)

16. $8 - 6 = 2$ apples

Making 10

Make ten

1. $7 + 3 = 10$
2. $8 + 2 = 10$
3. $3 + 7 = 10$
4. $4 + 6 = 10$
5. $1 + 9 = 10$
6. $6 + 4 = 10$
7. $2 + 8 = 10$
8. $5 + 5 = 10$

Adding within 20

Addition

1. $14 + 0 = 14$
2. $6 + 6 = 12$
3. $12 + 0 = 12$
4. $1 + 12 = 13$
5. $12 + 8 = 20$
6. $2 + 9 = 11$
7. $4 + 10 = 14$
8. $2 + 3 = 5$
9. $0 + 15 = 15$
10. $8 + 8 = 16$
11. $4 + 0 = 4$
12. $1 + 1 = 2$
13. $2 + 15 = 17$
14. $5 + 15 = 20$
15. $3 + 11 = 14$
16. $16 + 1 = 17$
17. $4 + 4 = 8$
18. $7 + 8 = 15$
19. $1 + 11 = 12$

Word problems

20. $9 + 4 = 13$ pencils
21. $5 + 3 = 8$ stickers

Answer Key (2 of 4)

Subtracting within 20

Subtraction

1. $10 - 0 = 10$
2. $15 - 11 = 4$
3. $4 - 4 = 0$
4. $19 - 5 = 14$
5. $14 - 2 = 12$
6. $17 - 3 = 14$
7. $6 - 2 = 4$
8. $18 - 3 = 15$
9. $14 - 10 = 4$
10. $16 - 13 = 3$
11. $7 - 6 = 1$
12. $12 - 8 = 4$
13. $14 - 8 = 6$
14. $5 - 5 = 0$

Word problems

15. $5 - 3 = 2$ stickers
16. $8 - 4 = 4$ stickers

Missing Numbers

Missing numbers

1. $2 + 12 = 14$
2. $6 + 10 = 16$
3. $0 + 5 = 5$
4. $7 + 7 = 14$
5. $1 + 7 = 8$
6. $14 + 2 = 16$
7. $16 + 2 = 18$
8. $13 + 1 = 14$
9. $7 + 10 = 17$
10. $12 + 0 = 12$
11. $9 + 6 = 15$
12. $7 + 4 = 11$
13. $7 + 2 = 9$
14. $10 + 10 = 20$
15. $15 + 2 = 17$
16. $2 + 5 = 7$

Missing Numbers (continued)

Missing numbers (continued)

17. $17 + 2 = 19$
18. $4 + 6 = 10$
19. $1 + 8 = 9$
20. $1 + 18 = 19$
21. $3 + 14 = 17$
22. $1 + 10 = 11$
23. $12 + 7 = 19$

Missing numbers

24. $9 - 3 = 6$
25. $15 - 2 = 13$
26. $8 - 8 = 0$
27. $20 - 15 = 5$
28. $9 - 4 = 5$
29. $15 - 12 = 3$
30. $20 - 0 = 20$
31. $6 - 3 = 3$
32. $15 - 1 = 14$
33. $2 - 0 = 2$
34. $18 - 9 = 9$
35. $13 - 9 = 4$
36. $4 - 0 = 4$
37. $20 - 11 = 9$
38. $16 - 14 = 2$
39. $8 - 2 = 6$
40. $20 - 19 = 1$
41. $17 - 10 = 7$
42. $9 - 0 = 9$
43. $20 - 4 = 16$
44. $13 - 4 = 9$
45. $13 - 12 = 1$
46. $20 - 10 = 10$
47. $18 - 1 = 17$

Tens and Ones

Reading expanded form

1. $50 = 50$

Answer Key (3 of 4)

Tens and Ones (continued)

Reading expanded form (continued)

2. $90 + 4 = 94$
3. $50 + 8 = 58$
4. $70 + 9 = 79$
5. $30 + 9 = 39$
6. $30 + 3 = 33$
7. $30 + 1 = 31$
8. $20 + 6 = 26$
9. $40 + 8 = 48$
10. $90 + 8 = 98$
11. $40 + 4 = 44$
12. $90 + 9 = 99$
13. $40 + 1 = 41$
14. $70 + 2 = 72$
15. $80 = 80$
16. $10 + 4 = 14$
17. $70 + 6 = 76$
18. $60 + 9 = 69$
19. $60 + 4 = 64$
20. $40 + 2 = 42$
21. $80 + 4 = 84$
22. $10 + 5 = 15$
23. $90 + 2 = 92$
24. $40 + 3 = 43$
25. $80 + 6 = 86$
26. $30 + 4 = 34$
27. $30 + 5 = 35$
28. $40 = 40$
29. $30 + 8 = 38$
30. $30 = 30$

Naming Shapes

Name the shape

1. rectangle — from octagon, pentagon, rectangle

Naming Shapes (continued)

Name the shape (continued)

2. octagon — from hexagon, octagon, rectangle
3. triangle — from octagon, square, triangle
4. octagon — from octagon, pentagon, rectangle
5. hexagon — from hexagon, rectangle, triangle
6. octagon — from octagon, rectangle, triangle

Word Problems

Word problems

1. $7 + 4 = 11$ pencils
2. $12 + 8 = 20$ cookies

Word problems

3. $9 - 7 = 2$ apples
4. $9 - 4 = 5$ cookies

Review: Adding and Subtracting

Addition

1. $4 + 6 = 10$
2. $0 + 12 = 12$
3. $10 + 10 = 20$
4. $4 + 8 = 12$
5. $2 + 16 = 18$
6. $12 + 5 = 17$
7. $6 + 12 = 18$

Subtraction

8. $15 - 5 = 10$
9. $6 - 4 = 2$
10. $17 - 9 = 8$
11. $17 - 1 = 16$
12. $20 - 19 = 1$
13. $12 - 5 = 7$
14. $19 - 8 = 11$

Answer Key (4 of 4)

Review: Adding and Subtracting (continued)

Word problems

15. $8 + 4 = 12$ pencils

16. $5 - 3 = 2$ cookies

Solutions (1 of 6)

Adding within 10

Word problems

15. Zoe had 10 pencils before buying 2 more at the library.

How many pencils does Zoe have now? ____

asked:

How many pencils does Zoe have
now?

$$10 + 2 = 12$$

12 pencils

Read it through once and do NOTHING. Grabbing the numbers on the first read means choosing an operation before you know the story, and that choice is the only hard part of a word problem.

Now the numbers: 10 and 2. Finding them is not the same as knowing what to do with them — that comes next, and it comes from the story rather than from the numbers.

Amounts are joining together. So this one is an addition: $10 + 2$.

$10 + 2 = 12$ pencils. And answer the question that was ASKED — "How many pencils does Zoe have now?" — in pencils, because the sum on its own is not yet an answer.

Solutions (2 of 6)

Adding within 10 (continued)

Word problems (continued)

16. First Leo bought 5 stickers, and then 4 more.

How many stickers does Leo have altogether? ____

asked:

How many stickers does Leo have altogether?

$$5 + 4 = 9$$

9 stickers

Read it through once and do NOTHING. Grabbing the numbers on the first read means choosing an operation before you know the story, and that choice is the only hard part of a word problem.

Now the numbers: 5 and 4. Finding them is not the same as knowing what to do with them — that comes next, and it comes from the story rather than from the numbers.

Amounts are joining together. So this one is an addition: $5 + 4$.

$5 + 4 = 9$ stickers. And answer the question that was ASKED — "How many stickers does Leo have altogether?" — in stickers, because the sum on its own is not yet an answer.

Solutions (3 of 6)

Making 10

Make ten

1. $7 + \underline{\quad} = 10$



$$7 + 3 = 10$$

7 and 3 3 and 7

Picture ten spaces in a row with 7 of them filled. The question is how many are still empty — not a sum to work out so much as a gap to see.

Count the empty ones: 3. So 7 and 3 make 10.

This pair is worth knowing by heart rather than counting each time — there are only five of them for ten, and 3 and 7 is the same pair the other way round. They are what makes $8 + 5$ easy later: take 2 from the 5 to finish the ten.

2. $8 + \underline{\quad} = 10$



$$8 + 2 = 10$$

8 and 2 2 and 8

Picture ten spaces in a row with 8 of them filled. The question is how many are still empty — not a sum to work out so much as a gap to see.

Count the empty ones: 2. So 8 and 2 make 10.

This pair is worth knowing by heart rather than counting each time — there are only five of them for ten, and 2 and 8 is the same pair the other way round. They are what makes $8 + 5$ easy later: take 2 from the 5 to finish the ten.

Solutions (4 of 6)

Tens and Ones

Reading expanded form

1. $50 \rightarrow \underline{\quad}$

$$50 = 50$$

This is expanded form run backwards: each piece already says which column it belongs in, so nothing needs working out — only placing.

Put each one in its own column and the number falls out: 50.

2. $90 + 4 \rightarrow \underline{\quad}$

$$90 + 4 = 94$$

This is expanded form run backwards: each piece already says which column it belongs in, so nothing needs working out — only placing.

Put each one in its own column and the number falls out: 94.

Solutions (5 of 6)

Naming Shapes

Name the shape

1.



octagon

pentagon

rectangle

rectangle is also
a parallelogram (both
pairs of sides parallel)

Count the sides first — that is what almost every shape name is built from, and it is one number rather than a picture to recognize.

4 sides makes it a quadrilateral — and that is where naming gets more careful, because the four-sided shapes have families inside families.

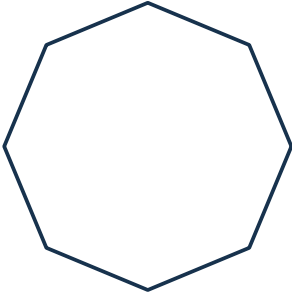
This one is a rectangle — and it is ALSO a parallelogram (both pairs of sides parallel). Being one does not stop it being the others; the question wants the most exact name that fits.

Solutions (6 of 6)

Naming Shapes (continued)

Name the shape (continued)

2.



hexagon

octagon

rectangle

sides: 8

octagon

Count the sides first — that is what almost every shape name is built from, and it is one number rather than a picture to recognize.

8 sides makes it an octagon.

So it is an octagon.