Grade 3 Math Review Workbook

5 lessons · printable · answer key at the back

Name _____ Date _____

Contents

1-1

Mixed Times Tables

WORKED EXAMPLE $4 \times 2 = 8$

1. Multiplication

Work out each product.

1 $3 \times 2 =$ ___
2 $2 \times 2 =$ ___
3 $6 \times 4 =$ ___
4 $1 \times 3 =$ ___
5 $2 \times 6 =$ ___
6 $2 \times 9 =$ ___
7 $3 \times 5 =$ ___
8 $1 \times 5 =$ ___
9 $8 \times 6 =$ ___
10 $5 \times 2 =$ ___
11 $10 \times 2 =$ ___
12 $1 \times 6 =$ ___
13 $2 \times 5 =$ ___
14 $9 \times 3 =$ ___
15 $2 \times 1 =$ ___
16 $3 \times 3 =$ ___

2. Word problems

Read each problem. Write the answer.

17 Dev filled 5 boxes with 3 croissants in each.

How many croissants does Dev have in all?

_____

18 Rosa filled 3 boxes with 3 cookies in each.

How many cookies does Rosa have in all?

_____

Dividing by 7, 8 and 9

WORKED EXAMPLE

$35 \div 7 = 5$

3. Dividing by 7

Work out each quotient.

1 $28 \div 7 =$ ___

2 $42 \div 7 =$ ___

3 $21 \div 7 =$ ___

4 $14 \div 7 =$ ___

5 $70 \div 7 =$ ___

6 $7 \div 7 =$ ___

4. Dividing by 8

Work out each quotient.

7 $32 \div 8 =$ ___

8 $40 \div 8 =$ ___

9 $8 \div 8 =$ ___

10 $24 \div 8 =$ ___

11 $72 \div 8 =$ ___

12 $16 \div 8 =$ ___

5. Dividing by 9

Work out each quotient.

13 $36 \div 9 =$ ___

14 $63 \div 9 =$ ___

15 $18 \div 9 =$ ___

16 $9 \div 9 =$ ___

17 $81 \div 9 =$ ___

18 $27 \div 9 =$ ___

6. Word problems

Read each problem. Write the answer.

19 Courtney packed 16 food pellets into hutches of 8.

How many hutches did Courtney fill?

_____

20 Lucia packed 42 bread rolls into trays of 7.

How many trays did Lucia fill?

_____

Word Problems: Division

WORKED EXAMPLE

Farah shared 18 treats equally among 6 feed bags.

How many treats went in each feed bag?

ANSWER: **18 ÷ 6 = 3 treats**

7. Word problems

Read each problem. Write the answer.

1 Lucia shared 15 cookies equally among 5 boxes. Lucia also keeps 6 cupcakes.

How many cookies went in each box?

2 Maya packed 20 books into crates of 4.

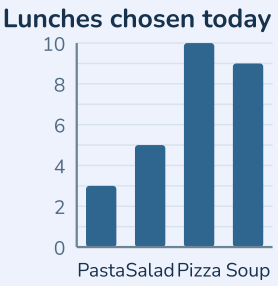
How many crates did Maya fill?

3 Ravi shared 24 carrots equally among 6 feed bags.

How many carrots went in each feed bag?

Bar Graphs and Line Plots

WORKED EXAMPLE



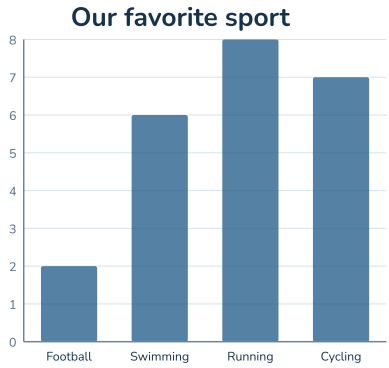
How many more chose salad and pizza than chose pasta?

ANSWER: **12**

8. Bar graphs

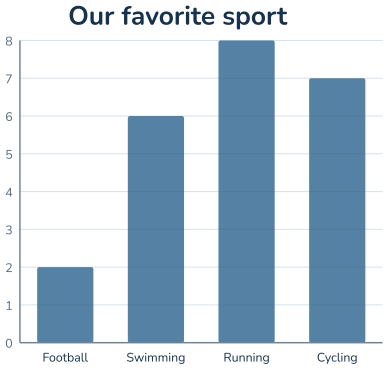
Read each bar graph and answer the question.

1



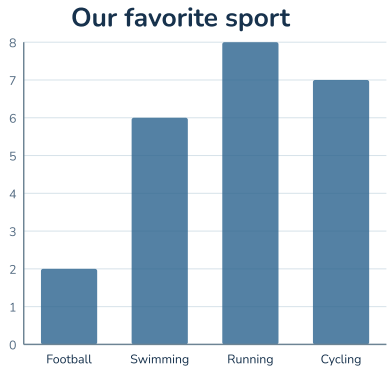
How many more chose swimming and running than chose football?

2



How many more chose football and swimming than chose cycling?

3

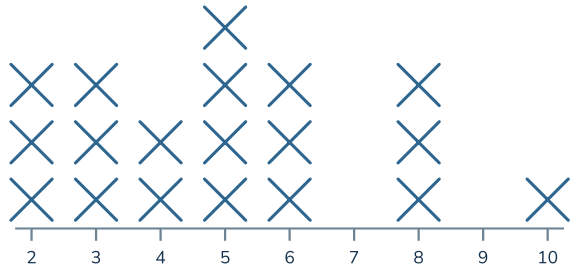


How many more chose football and running than chose swimming?

9. Line plots

Read each line plot and answer the question.

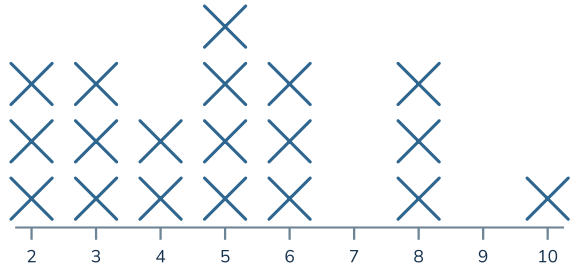
4



How many worms were longer than 3 inches?

_____

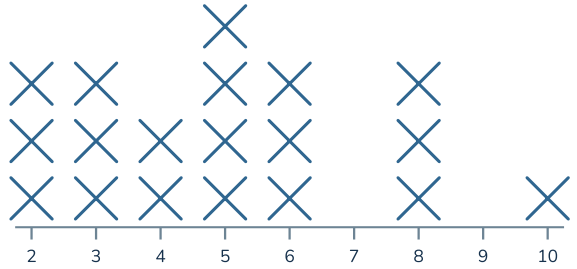
5



How many worms were longer than 4 inches?

_____

6



How many worms were longer than 5 inches?

_____

Review: Times Tables and Division

WORKED EXAMPLE

$10 \times 7 = 70$

10. Multiplication

Work out each product.

1 $3 \times 10 =$ ___

2 $2 \times 5 =$ ___

3 $10 \times 6 =$ ___

4 $4 \times 6 =$ ___

5 $10 \times 5 =$ ___

6 $4 \times 9 =$ ___

7 $9 \times 9 =$ ___

11. Division

Work out each quotient.

8 $24 \div 6 =$ ___

9 $12 \div 4 =$ ___

10 $42 \div 6 =$ ___

11 $35 \div 5 =$ ___

12 $54 \div 9 =$ ___

13 $21 \div 3 =$ ___

14 $42 \div 7 =$ ___

12. Word problems

Read each problem. Write the answer.

15 Jordan shared 36 notebooks equally among 4 boxes.

How many notebooks went in each box?

_____

16 Jordan filled 4 shelves with 6 books in each. Jordan also has 2 tickets.

How many books does Jordan have in all?

_____

Answer Key

Mixed Times Tables

Multiplication

1. 3 × 2 = 6
2. 2 × 2 = 4
3. 6 × 4 = 24
4. 1 × 3 = 3
5. 2 × 6 = 12
6. 2 × 9 = 18
7. 3 × 5 = 15
8. 1 × 5 = 5
9. 8 × 6 = 48
10. 5 × 2 = 10
11. 10 × 2 = 20
12. 1 × 6 = 6
13. 2 × 5 = 10
14. 9 × 3 = 27
15. 2 × 1 = 2
16. 3 × 3 = 9

Word problems

17. 5 × 3 = 15 croissants
18. 3 × 3 = 9 cookies

Dividing by 7, 8 and 9

Dividing by 7

1. 28 ÷ 7 = 4
2. 42 ÷ 7 = 6
3. 21 ÷ 7 = 3
4. 14 ÷ 7 = 2
5. 70 ÷ 7 = 10
6. 7 ÷ 7 = 1

Dividing by 8

7. 32 ÷ 8 = 4
8. 40 ÷ 8 = 5
9. 8 ÷ 8 = 1
10. 24 ÷ 8 = 3
11. 72 ÷ 8 = 9
12. 16 ÷ 8 = 2

Dividing by 9

13. 36 ÷ 9 = 4
14. 63 ÷ 9 = 7
15. 18 ÷ 9 = 2
16. 9 ÷ 9 = 1
17. 81 ÷ 9 = 9

Dividing by 7, 8 and 9 (continued)

Dividing by 9 (continued)

18. 27 ÷ 9 = 3

Word problems

19. 16 ÷ 8 = 2 hutches
20. 42 ÷ 7 = 6 trays

Word Problems: Division

Word problems

1. 15 ÷ 5 = 3 cookies
2. 20 ÷ 4 = 5 crates
3. 24 ÷ 6 = 4 carrots

Bar Graphs and Line Plots

Bar graphs

1. 6 + 8 = 14, 14 − 2 = 12
2. 2 + 6 = 8, 8 − 7 = 1
3. 2 + 8 = 10, 10 − 6 = 4

Line plots

4. longer than 3 inches — 13 worms
5. longer than 4 inches — 11 worms
6. longer than 5 inches — 7 worms

Review: Times Tables and Division

Multiplication

1. 3 × 10 = 30
2. 2 × 5 = 10
3. 10 × 6 = 60
4. 4 × 6 = 24
5. 10 × 5 = 50
6. 4 × 9 = 36
7. 9 × 9 = 81

Division

8. 24 ÷ 6 = 4
9. 12 ÷ 4 = 3
10. 42 ÷ 6 = 7
11. 35 ÷ 5 = 7
12. 54 ÷ 9 = 6
13. 21 ÷ 3 = 7
14. 42 ÷ 7 = 6

Word problems

15. 36 ÷ 4 = 9 notebooks
16. 4 × 6 = 24 books

Solutions (1 of 5)

Mixed Times Tables

Word problems

17. Dev filled 5 boxes with 3 croissants in each.

How many croissants does Dev have in all? ____

asked:

How many croissants does Dev have in all?

5 × 3 = 15

15 croissants

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 3. 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.

Equal groups, and you are told how many groups and how big each one is — that is a multiplication, and adding the two numbers is the mistake the story is set up to catch. So this one is a multiplication: 5 × 3.

5 × 3 = 15 croissants. And answer the question that was ASKED — "How many croissants does Dev have in all?" — in croissants, because the sum on its own is not yet an answer.

Solutions (2 of 5)

Mixed Times Tables (continued)

Word problems (continued)

18. Rosa filled 3 boxes with 3 cookies in each.

How many cookies does Rosa have in all? ___

asked:

How many cookies does Rosa have in all?

3 × 3 = 9

9 cookies

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: 3 and 3. 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.

Equal groups, and you are told how many groups and how big each one is — that is a multiplication, and adding the two numbers is the mistake the story is set up to catch. So this one is a multiplication: 3 × 3.

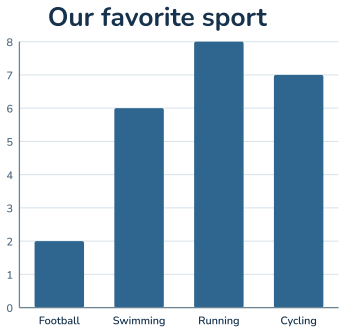
3 × 3 = 9 cookies. And answer the question that was ASKED — "How many cookies does Rosa have in all?" — in cookies, because the sum on its own is not yet an answer.

Solutions (3 of 5)

Bar Graphs and Line Plots

Bar graphs

1.



How many more chose swimming and running than chose football?

____

Football:	2 up	→	2 votes
Swimming:	6 up	→	6 votes
Running:	8 up	→	8 votes
Cycling:	7 up	→	7 votes

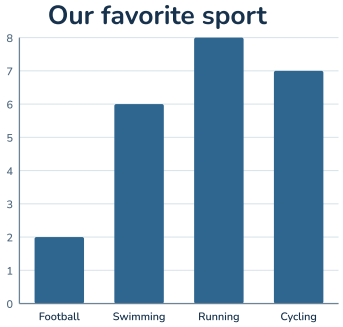
12 votes

Check the key first, every time. Here one square is one vote, so counting is enough — but that is a fact to check, not to assume.

So the counts read straight off: Football 2, Swimming 6, Running 8, Cycling 7.

Now the question, on the NUMBERS rather than the marks: 6 + 8 = 14, 14 − 2 = 12. So the answer is 12 votes.

2.



How many more chose football and swimming than chose cycling?

____

Football:	2 up	→	2 votes
Swimming:	6 up	→	6 votes
Running:	8 up	→	8 votes
Cycling:	7 up	→	7 votes

1 votes

Check the key first, every time. Here one square is one vote, so counting is enough — but that is a fact to check, not to assume.

So the counts read straight off: Football 2, Swimming 6, Running 8, Cycling 7.

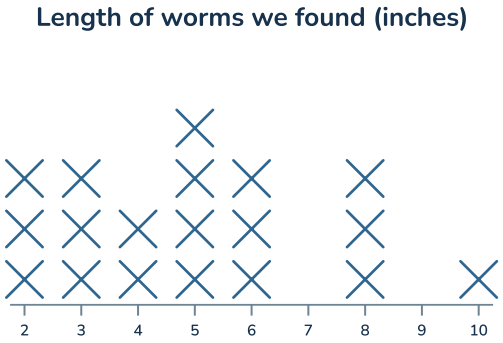
Now the question, on the NUMBERS rather than the marks: 2 + 6 = 8, 8 − 7 = 1. So the answer is 1 votes.

Solutions (4 of 5)

Bar Graphs and Line Plots (continued)

Line plots

4.



How many worms were longer than 3 inches?

____

2 inches: 3 worms

3 inches: 3 worms

4 inches: 2 worms

5 inches: 4 worms

6 inches: 3 worms

8 inches: 3 worms

10 inches: 1 worms

13

A line plot is not bars to read off a scale — each mark is one worm. So the number ALONG the bottom and the number of marks ABOVE it are two different quantities, and the question wants one of them.

Counting the stacks: 3 at 2, 3 at 3, 2 at 4, 4 at 5, 3 at 6, 3 at 8, 1 at 10.

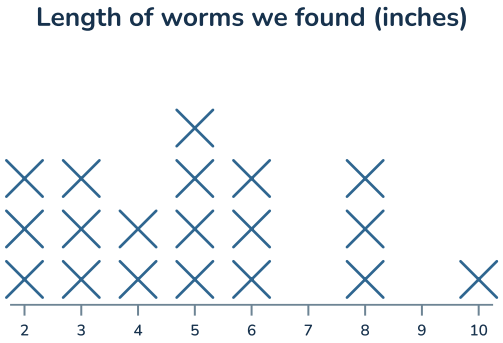
longer than 3 inches — 13 worms — so the answer is 13.

Solutions (5 of 5)

Bar Graphs and Line Plots (continued)

Line plots (continued)

5.



How many worms were longer than 4 inches?

____

2 inches: 3 worms

3 inches: 3 worms

4 inches: 2 worms

5 inches: 4 worms

6 inches: 3 worms

8 inches: 3 worms

10 inches: 1 worms

11

A line plot is not bars to read off a scale — each mark is one worm. So the number ALONG the bottom and the number of marks ABOVE it are two different quantities, and the question wants one of them.

Counting the stacks: 3 at 2, 3 at 3, 2 at 4, 4 at 5, 3 at 6, 3 at 8, 1 at 10.

longer than 4 inches — 11 worms — so the answer is 11.