Teacher Packet

Grade 2 Mathematics

Teacher At-Home Activity Packet

The At-Home Activity Packet includes 22 sets of practice problems that align to important math concepts that have likely been taught this year.

Since pace varies from classroom to classroom, feel free to select the pages that align with the topics your students have covered.

The At-Home Activity Packet includes instructions to the parent and can be printed and sent home.

This At-Home Activity Packet—Teacher Guide includes all the same practice sets as the Student version with the answers provided for your reference

See the Grade 2 Math concepts covered in this packet!

Grade 2 Math concepts covered in this packet

Add.

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

17. Which strategy did you use to solve problem 11? Explain.

Answers will vary. Possible answer: I made a 10 with 9 + 1 and then added 1 more to get 11.

Add.

1. $4 + 4 =$ 8

2. $4 + 5 =$ 9

3. $6 + 6 =$ 12

4. $5 + 6 =$ 11

5. $7 + 7 =$ 14

6. $8 + 7 =$ 15

7. $9 + 9 =$ 18

8. $8 + 9 =$ 17

9. $5 + 5 =$ 10

10. $6 + 5 =$ 11

11. $8 + 8 =$ 16

12. $7 + 8 =$ 15

13. Which strategy did you use to solve problem 12? Explain why.

Answers will vary. Possible answer: I used the near doubles strategy. I used the double 8 + 8 = 16 and found 1 less to get 7 + 8 = 15.

Complete each set of equations.

1 $12 - 3 = \boxed{9}$

$3 + \boxed{9} = 12$

2 $14 - 5 = \boxed{9}$

$5 + \boxed{9} = 14$

3 $11 - 3 = \boxed{8}$

$3 + \boxed{8} = 11$

4 $15 - 7 = \boxed{8}$

$7 + \boxed{8} = 15$

5 $12 - \boxed{2} = 10$

$12 - 4 = \boxed{8}$

6 $13 - \boxed{3} = 10$

$13 - 6 = \boxed{7}$

7 $16 - \boxed{6} = 10$

$16 - 9 = \boxed{7}$

8 $15 - \boxed{5} = 10$

$15 - 9 = \boxed{6}$

9 In problem 6, how did you use your first answer to find your second answer?

Answers will vary. Possible answer: 13 − 3 = 10. So, to find 13 − 6, I needed to subtract 3 more from 10, and 3 less than 10 is 7.

Solve problems 1–6.

1 Hailey buys 9 potatoes. 4 potatoes are white. The rest are red. How many red potatoes are there? Show your work.

Student work will vary.

Solution 5 potatoes are red.

2 Levi has 17 pet fish. 7 of the fish are goldfish. The rest are mollies. How many fish are mollies? Show your work.

Student work will vary.

Solution 10 fish are mollies.

3 Ada wants to read 12 books over the summer. 5 books are stories about cats. The rest are stories about horses. How many books are stories about horses? Show your work.

Student work will vary.

Solution 7 books are stories about horses.

4 There are 16 chairs at a table. 7 students sit down. The rest of the chairs are empty. How many chairs are empty? Show your work.

Student work will vary.

Solution 9 chairs are empty.

5 Luis sees 14 dogs at the dog park. 6 of the dogs are small dogs. The rest of the dogs are big dogs. How many dogs are big? Show your work.

Student work will vary.

Solution 8 dogs are big.

6 Sadie has 20 crayons. She finds 8 crayons in her desk. The rest of the crayons are in her crayon box. How many crayons are in Sadie's crayon box? Show your work.

Student work will vary.

Solution 12 crayons are in the crayon box.

7 Which strategy did you use to solve problem 6? Explain why.

Answers will vary.

Solve problems 1–6. Show your work.

1 There are 4 fewer cats than dogs. There are 2 cats. How many dogs are there?

__6__ dogs

2 Trevor sees 8 red birds. He sees 5 more red birds than blue birds. How many blue birds does Trevor see?

Trevor sees __3__ blue birds.

3 Anna has 7 baskets and some flowers. She has 5 fewer baskets than flowers. How many flowers does Anna have?

Anna has __12__ flowers.

4 There are 14 coats and some hats. There are 6 more coats than hats. How many hats are there?

__8__ hats

5 There are 9 apples. There are 6 fewer apples than oranges. How many oranges are there?

__15__ oranges

6 Brynne has 13 books. She has 8 more books than games. How many games does Brynne have?

Brynne has __5__ games.

Solve problems 1–6. Show your work.

1 Jack has 9 flowers to plant. He plants 2 flowers before lunch. Then he plants 3 more after lunch. How many flowers does Jack have left to plant?

Jack has 4 flowers left to plant.

2 There are 8 girls at the park. First, 5 girls go home. Then 6 more girls come to the park. How many girls are at the park now?

There are 9 girls at the park.

3 Bella paints 6 pictures on Monday and 8 pictures on Wednesday. Then she paints 3 more pictures on Friday. How many pictures does Bella paint this week?

Bella paints 17 pictures this week.

4 Ali puts 12 books in a box. She takes 4 books out of the box. Then she puts 6 books in the box. How many books are in the box now?

There are 14 books in the box.

5 Lucas has 5 crayons. His sister gives him 6 more. Then he gives 4 to a friend. How many crayons does Lucas have now?

Lucas has 7 crayons.

6 Miss Brady puts 15 pencils in her desk. Then she takes out 9 pencils. After school she puts 5 pencils back in her desk. How many pencils are in Miss Brady's desk now?

There are 11 pencils in the desk.

Solve problems 1–6. Show your work.

1 Tony has 37 building blocks. Then he buys more blocks. Now he has 51 blocks. How many blocks does Tony buy?

Tony buys 14 blocks.

2 There are some chairs in the art room. Mrs. Lopez brings in 16 more chairs. Now there are 42 chairs. How many chairs were in the room at the start?

There were 26 chairs in the room at the start.

3 Jen has some buttons. She gets 23 more buttons from her mom. Now she has 65 buttons. How many buttons did Jen have to begin with?

Jen had 42 buttons to begin with.

4 Colby packs 31 boxes in one day. He packs 12 boxes in the morning and some boxes after lunch. How many boxes does Colby pack after lunch?

Colby packs 19 boxes after lunch.

5 Ayanna reads 26 pages of her book at school. Later she reads more pages at home. Now she has read 54 pages. How many pages does Ayanna read at home?

Ayanna reads 28 pages at home.

6 The camp has some tents. Campers set up 42 more tents. Now the camp has 60 tents. How many tents did the camp have to begin with?

The camp had 18 tents to begin with.

Find the sums and missing addends.

1 $30 + 7 + 50 + 3 =$ 90

2 $37 + 53 =$ 90

3 $20 + 8 + 40 + 2 =$ 70

4 $28 + 42 =$ 70

5 $60 + 6 + 10 + 4 =$ 80

6 $66 + 14 =$ 80

7 $40 + 5 + 40 + 5 =$ 90

8 $45 +$ 45 $= 90$

9 $30 + 9 + 20 + 1 =$ 60

10 39 $+ 21 = 60$

11 $20 + 4 + 60 + 6 =$ 90

12 $24 +$ 66 $= 90$

13 $40 + 3 + 30 + 7 =$ 80

14 43 $+ 37 = 80$

15 How does the information in problem 9 help you solve problem 10?

Answers may vary. Sample answer: I know the sums of problems 9 and 10 are 60. problem 10 has the addend 21 as does problem 9 (20 + 1), so I know that by adding the first two addends of Problem 9, I will get the missing addend in problem 10.

Subtract.

Possible solutions:

1 $50 - 29 = ?$

$29 + 20 = 49$

$49 + 1 = 50$

$20 + 1 = 21$

$50 - 29 = 21$

2 $71 - 45 = ?$

$45 + 5 = 50$

$50 + 20 = 70$

$70 + 1 = 71$

$5 + 20 + 1 = 26$

$71 - 45 = 26$

3 $80 - 41 = ?$

$41 + 30 = 71$

$71 + 9 = 80$

$30 + 9 = 39$

$80 - 41 = 39$

4 $63 - 28 = ?$

$28 + 30 = 58$

$58 + 2 = 60$

$60 + 3 = 63$

$30 + 2 + 3 = 35$

$63 - 28 = 35$

5 $43 - 28 = ?$

$28 + 2 = 30$

$30 + 10 = 40$

$40 + 3 = 43$

$2 + 10 + 3 = 15$

$43 - 28 = 15$

6 $95 - 65 = ?$

$65 + 30 = 95$

$95 - 65 = 30$

7 65 − 39 = ?

39 + 20 = 59

59 + 1 = 60

60 + 5 = 65

20 + 1 + 5 = 26

65 − 39 = 26

8 47 − 15 = ?

15 + 5 = 20

20 + 20 = 40

40 + 7 = 47

5 + 20 + 7 = 32

47 − 15 = 32

9 75 − 28 = ?

28 + 40 = 68

68 + 2 = 70

70 + 5 = 75

40 + 2 + 5 = 47

75 − 28 = 47

10 54 − 12 = ?

12 + 8 = 20

20 + 30 = 50

50 + 4 = 54

30 + 8 + 4 = 42

54 − 12 = 42

13 How did you decide what to add first? Then how did you get the answer?

Answers will vary. Possible answer: I either added enough to get up to the next tens number or I added a number of tens to the first number. Then I kept adding more until I reached the number I was subtracting from. I combined all the parts I added to get the difference.

Circle all the problems where you can regroup a ten to help subtract. Then solve the circled problems.

1 32 − 16 = 16

2 48 − 15

3 57 − 25

4 63 − 39 = 24

5 76 − 26

6 82 − 37 = 45

7 38 − 28

8 53 − 44 = 9

9 42 − 25 = 17

10 96 − 40

11 92 − 56 = 36

12 65 − 23

13 86 − 19 = 67

14 59 − 33

15 77 − 48 = 29

16 62 − 27 = 35

17 How did you know which problems to circle?

Answers will vary.
Possible answer: I look at the ones place. If the digit in the ones place in the top number is less than the digit in the ones place in the bottom number, I need to regroup a ten.

18 Check one of your answers by solving it using a different strategy. Show your work.

Answers will vary.

Solve.

1 35 + 10 = 45
35 + 20 = 55
35 + 25 = 60

2 24 + 10 = 34
24 + 40 = 64
24 + 44 = 68

3 42 + 10 = 52
42 + 40 = 82
42 + 45 = 87

4 51 + 10 = 61
51 + 20 = 71
51 + 25 = 76

5 26 + 10 = 36
26 + 40 = 66
26 + 43 = 69

6 58 + 2 = 60
58 + 12 = 70
58 + 13 = 71

7 39 + 1 = 40
39 + 31 = 70
39 + 36 = 75

8 27 + 3 = 30
27 + 33 = 60
27 + 38 = 65

9 44 + 10 = 54
44 + 20 = 64
44 + 23 = 67

10 69 + 1 = 70
69 + 21 = 90
69 + 24 = 93

Strategies to Find a Missing Addend *continued*

11 33 + 10 = 43
33 + 40 = 73
33 + 43 = 76

12 48 + 2 = 50
48 + 32 = 80
48 + 37 = 85

13 26 + 44 = 70
32 + 29 = 61
49 + 46 = 95

14 57 + 26 = 83
34 + 33 = 67
28 + 25 = 53

15 62 + 23 = 85
41 + 55 = 96
53 + 24 = 77

16 19 + 56 = 75
43 + 44 = 87
68 + 31 = 99

17 Explain how the strategy to solve problem 5 is different from the strategy used to solve problem 6.

Answers may vary. Possible answer: To solve problem 5, I first added tens then added on the ones. To solve problem 6, I first added ones to the nearest ten then added tens.

18 Explain the strategy you used to solve the first part of problem 14.

Answers may vary. Possible answer: First I added 3 to 57 to get to the nearest ten, 60. Then I added 20 to 60 which equals 80. Finally, I added 3 to get to 83. So 3 + 20 + 3 = 26.

The answers are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

1 300 + 50 + 1 = 351

2 2 hundreds + 6 tens + 7 ones = 267

3 400 + 20 + 6 = 426

4 400 + 60 + 2 = 462

5 600 + 40 + 2 = 642

6 5 hundreds + 1 ten + 3 ones = 513

7 3 hundreds + 7 tens + 5 ones = 375

8 500 + 20 + 6 = 526

9 200 + 8 = 208

10 2 hundreds + 8 tens + 0 ones = 280

11 600 + 70 + 1 = 671

12 6 hundreds + 0 tens + 7 ones = 607

13 400 + 70 + 6 = 476

14 2 hundreds + 3 tens + 3 ones = 233

15 3 hundreds + 2 tens + 3 ones = 323

16 3 hundreds + 3 tens + 2 ones = 332

Answers:

233	607	476	323	267	671
426	513	526	208	642	462
332	375	280	351		

Write the number using only digits.

1. one hundred sixty-four — 164
2. six hundred fifty-two — 652
3. three hundred twelve — 312
4. two hundred sixty-one — 261
5. two hundred five — 205
6. five hundred nineteen — 519

Write the number using only digits.

7. $100 + 10 + 6$ — 116
8. $500 + 4$ — 504
9. $300 + 40 + 5$ — 345
10. $300 + 50 + 4$ — 354
11. $400 + 60$ — 460
12. $500 + 40$ — 540

Write the number as a sum of hundreds, tens, and ones. Then write the number using words.

13 522

500 + 20 + 2

five hundred twenty-two

14 435

400 + 30 + 5

four hundred thirty-five

15 218

200 + 10 + 8

two hundred eighteen

16 310

300 + 10

three hundred ten

17 Explain how problem 8 is the same and different from problem 12.

Answers will vary. Possible answer: Both 504 and 540 have 5 hundreds, but 504 has 0 tens and 4 ones and 540 has 4 tens and 0 ones.

Compare the numbers in each problem two different ways.

1 Compare 250 and 200.

200 < 250 and
250 > 200

2 Compare 170 and 180.

170 < 180 and
180 > 170

3 Compare 346 and 325.

325 < 346 and
346 > 325

4 Compare 235 and 261.

235 < 261 and
261 > 235

5 Compare 424 and 453.

424 < 453 and
453 > 424

6 Compare 833 and 824.

824 < 833 and
833 > 824

7 Compare 637 and 682.

637 < 682 and
682 > 637

8 Compare 362 and 326.

326 < 362 and
362 > 326

9 Compare 531 and 513.

513 < 531 and
531 > 513

10 Compare 714 and 741.

714 < 741 and
741 > 714

11 Compare 468 and 486.

468 < 486 and
486 > 468

12 Compare 967 and 959.

959 < 967 and
967 > 959

13 What strategies did you use to compare the numbers?

Answers will vary.

The answers are mixed up at the bottom of the page.
Cross out the answers as you complete the problems.

1 635 + 321 = **956**

2 439 + 154 = **593**

3 336 + 123 = **459**

4 825 + 166 = **991**

5 512 + 336 = **848**

6 246 + 348 = **594**

7 772 + 109 = **881**

8 347 + 314 = **661**

9 483 + 208 = **691**

10 225 + 224 = **449**

11 548 + 406 = **954**

12 475 + 515 = **990**

13 273 + 211 = **484**

14 728 + 253 = **981**

15 627 + 263 = **890**

Answers:

449	594	881	956	691
484	661	890	991	593
954	848	990	459	981

Look at the hundreds digits in each problem. Circle those that will have a sum greater than 500. Then find the exact sums of only the problems you circled.

1 435 + 283 = 718

2 205 + 113 =

3 586 + 130 = **716**

4 378 + 343 = **721**

5 186 + 175 =

6 476 + 234 = **710**

7 152 + 169 =

8 214 + 225 =

9 362 + 556 = **918**

10 481 + 262 = **743**

11 145 + 239 =

12 347 + 133 =

13 286 + 644 = **930**

14 267 + 174 =

15 383 + 319 = **702**

16 How do you know that 361 + 283 is greater than 500 without finding the sum?

Answers will vary. Possible answer: I know the sum will be greater than 500 because I can see that three hundreds plus two hundreds is already five hundreds. The sum of the tens and ones will make the total sum greater than 500.

Circle all the problems where you must regroup a ten to subtract the ones. Then find the differences of only the problems you circled.

1 875 − 646 = 229

2 478 − 226 =

3 692 − 437 = **255**

4 345 − 224 =

5 761 − 338 = **423**

6 514 − 402 =

7 953 − 821 =

8 474 − 156 = **318**

9 320 − 210 =

10 663 − 425 = **238**

11 619 − 308 =

12 847 − 628 = **219**

13 736 − 517 = **219**

14 563 − 249 = **314**

15 375 − 163 =

16 How can you tell by looking at the problem if you need to regroup a ten to subtract the ones?

Answers will vary. Possible answer: When I look at the ones place, if the ones digit in the top number is less than the ones digit in the bottom number, then I will need to regroup.

The answers are mixed up at the bottom of the page.
Cross out the answers as you complete the problems.

1 816 − 432 = **384**

2 927 − 563 = **364**

3 506 − 315 = **191**

4 448 − 160 = **288**

5 743 − 471 = **272**

6 476 − 293 = **183**

7 628 − 236 = **392**

8 961 − 470 = **491**

9 527 − 256 = **271**

10 347 − 154 = **193**

11 835 − 285 = **550**

12 624 − 382 = **242**

13 329 − 170 = **159**

14 465 − 195 = **270**

15 519 − 378 = **141**

Answers:

193	242	191	384	272
364	271	491	288	392
183	141	550	159	270

Find the sum. Show your work.

1 29 + 34 + 21 + 36

50 + 70

120

2 45 + 38 + 62 + 15

160

3 17 + 36 + 43 + 74

170

4 55 + 49 + 71 + 15

190

5 32 + 24 + 68 + 46

170

6 27 + 19 + 33 + 81

160

7 32 + 13 + 29 + 35

109

8 53 + 74 + 13 + 44

184

9 24 + 12 + 74 + 68

178

10 92 + 37 + 71 + 14

214

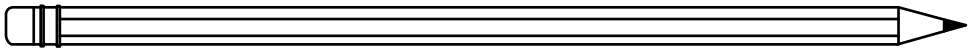
11 Explain how you found the answer to problem 8.

Answers will vary. Possible answer: I broke each number into tens and ones. Then I added the ones: 3 + 4 + 3 + 4 = 14. Next, I added the tens: 50 + 70 + 10 + 40 = 170. Finally, I added 170 + 14 to get 184.

1 Use a ruler to measure the length of the piece of tape in inches.

What is the length of the tape? 3 inches

2 Use a ruler to measure the length of the pencil in inches.

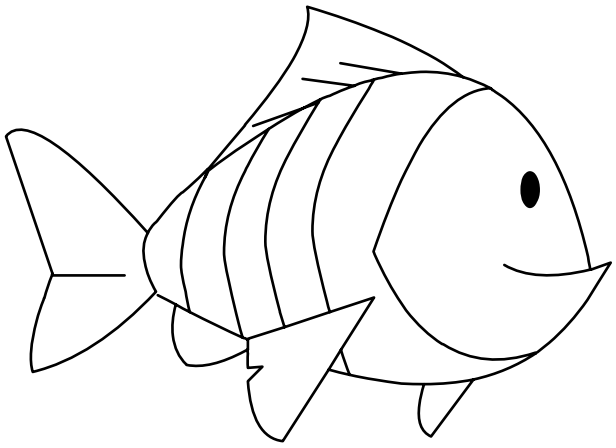


What is the length of the pencil? 5 inches

3 Use a ruler to measure the length of the shoe in centimeters.

What is the length of the shoe? 6 centimeters

4 Use a ruler to measure the length of the fish in centimeters.



What is the length of the fish? 8 centimeters

5 Use a ruler to measure the length of the string in both inches and centimeters.

What is the length of the string in inches? 2 inches

What is the length of the string in centimeters? 5 centimeters

6 Use a ruler to measure the length of the rectangle in both inches and centimeters.

What is the length of the rectangle in inches? 4 inches

What is the length of the rectangle in centimeters? 10 centimeters

7 For problem 6, did you write different numbers for the length in inches and the length in centimeters? Explain.

Yes. Answers will vary. Possible answer: The length of the rectangle is 4 inches and 10 centimeters long. Centimeters are smaller units than inches, so when you measure something in inches and centimeters, there are more centimeters than inches.

1 Circle the objects that are easier to measure with an inch ruler.
Underline the objects that are easier to measure with a yardstick.

a bike a leaf a table

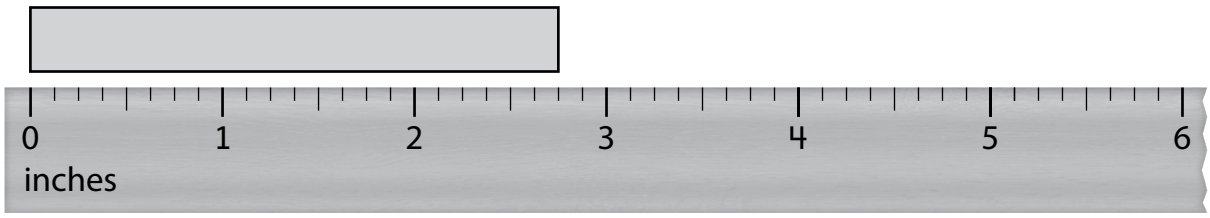
a book a sticker

2 Circle the objects that are easier to measure with an inch ruler.
Underline the objects that are easier to measure with a yardstick.

a window a cracker a tent

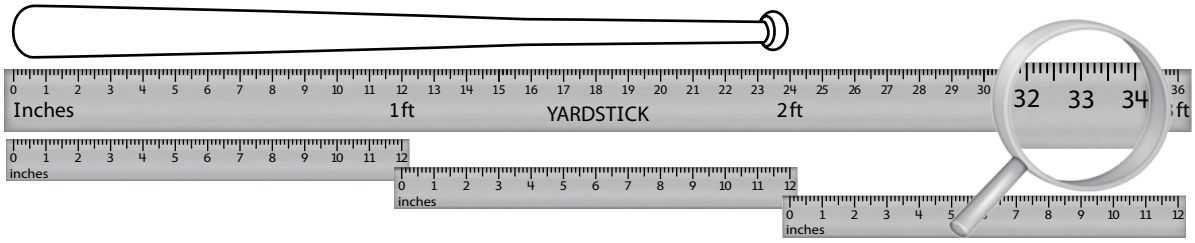
a marker a blanket

3 What is the length of the rectangle to the nearest inch?



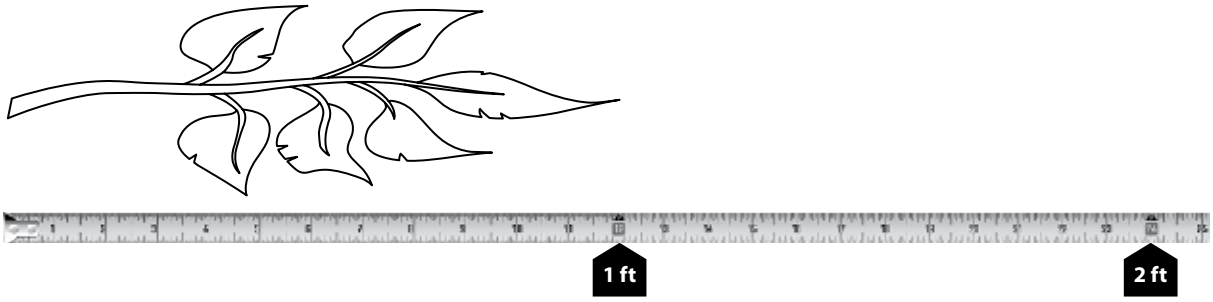
The rectangle is about 3 inches long.

4 What is the length of the baseball bat to the nearest foot?



The baseball bat is about 2 feet long.

5 What is the length of the branch to the nearest foot?



The branch is about 1 foot long.

1 Circle the objects that are easier to measure with a centimeter ruler. Underline the objects that are easier to measure with a meter stick.

a rug

a mitten

a pool

a bee

a shell

2 Circle the objects that are easier to measure with a centimeter ruler. Underline the objects that are easier to measure with a meter stick.

a porch

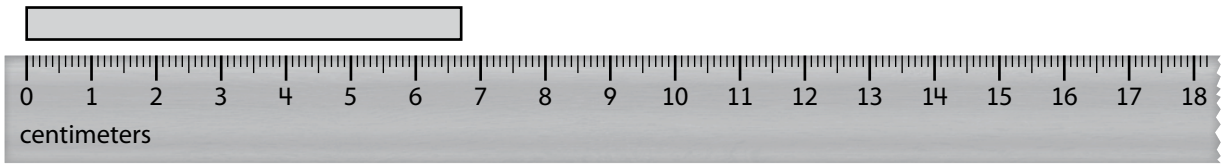
a spoon

a watch

a bus

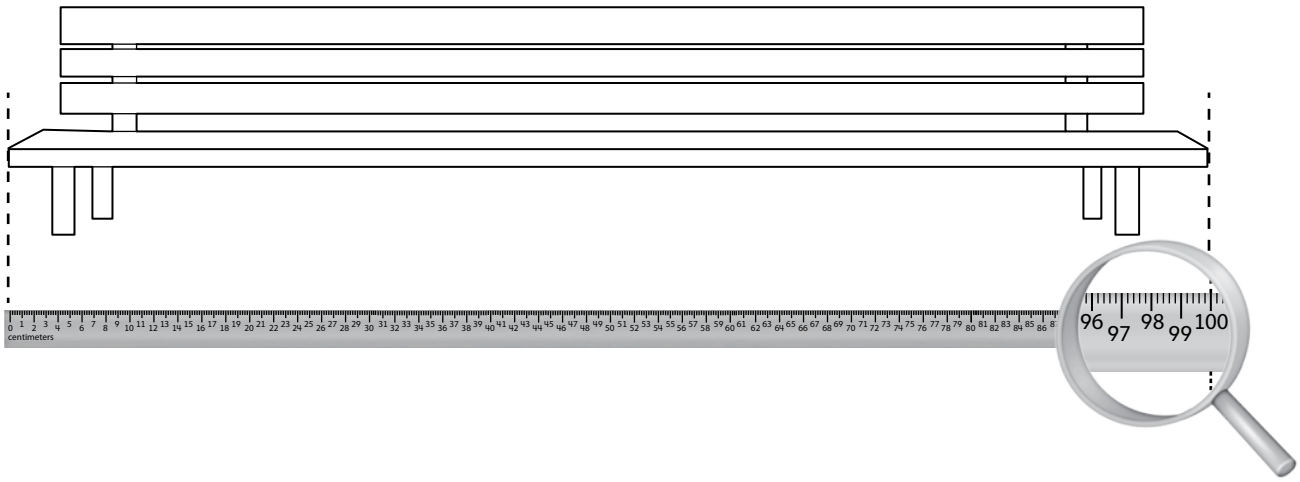
a lunch bag

3 What is the length of the tape to the nearest centimeter?



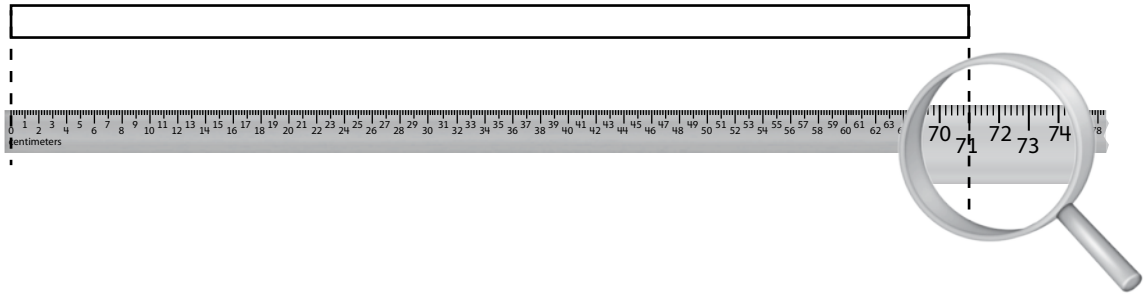
The tape is about 7 centimeters long.

4 What is the length of the bench to the nearest meter?



The bench is about 1 meter long.

5 What is the length of the rectangle to the nearest centimeter?



The rectangle is about 71 centimeters long.