
End-of-the-Year Test - Grade 4

Addition, Subtraction, Patterns, and Graphs

1. Subtract. Check by adding.

$$5,200 - 2,677 - 543$$

Add to check:

2. a. Round the prices to the nearest dollar. Use the rounded prices to estimate the total bill.

crackers \$1.28, cheese \$8.92, jam \$3.77, butter \$9.34.

b. Now, use the exact prices (not rounded prices). Mrs. Wood buys the items listed above and pays with \$30. What is her change?

3. *Estimate* the cost of buying five notebooks for \$0.87 each and two pencil cases for \$1.24 each.

4. Calculate in the right order.

a. $3 \times (4 + 6) = \underline{\hspace{2cm}}$ $100 - 4 \times 4 = \underline{\hspace{2cm}}$	b. $3 \times 3 + 8 \div 4 = \underline{\hspace{2cm}}$ $(7 - 3) \times 3 + 2 = \underline{\hspace{2cm}}$	c. $20 \times 3 + 80 \div 1 = \underline{\hspace{2cm}}$ $15 + 2 \times (8 - 6) = \underline{\hspace{2cm}}$
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5. Circle the number sentence that fits the problem. Then solve for x .

a. Alice had \$35. Then she earned more money (x). Now she has \$92. $\$35 + x = \92 OR $\$35 + \$92 = x$ $x = \underline{\hspace{2cm}}$	b. Eric gave 24 of the cookies he had baked to a friend and now he has 37 cookies left. $37 - 24 = x$ OR $x - 24 = 37$ $x = \underline{\hspace{2cm}}$
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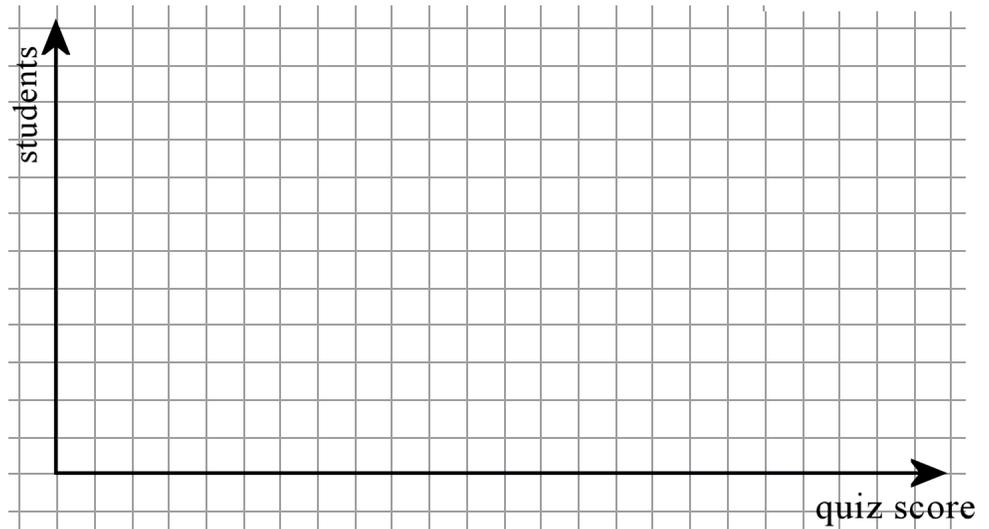
6. **a.** Continue this pattern for four more numbers:

2,000 1,750 1,500 1,250

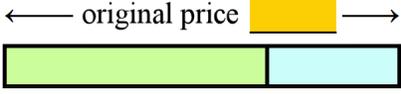
b. Write a list of six numbers that follows this pattern: Start at 200, and add 300 each time.

7. These numbers are the students' quiz scores. 2 5 8 7 6 6 7 10 10 4 7 7 8 6 8 5 9 9 8 6 6 5 7 9
 Make a frequency table and a bar graph.

Quiz score	Frequency
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	



8. Write an addition or a subtraction with an unknown (x or $?$). Solve it. The bar model can help.

<p>Rubber boots used to cost \$27.95 but now the price is \$21.45. How much is the discount?</p> <p>_____</p> <p>_____</p>	<p>← original price →</p> 
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Large Numbers and Place Value

9. Subtract from whole thousands.

a. $2,000 - 1 = \underline{\hspace{2cm}}$	b. $5,000 - 20 = \underline{\hspace{2cm}}$	c. $6,000 - 300 = \underline{\hspace{2cm}}$
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10. Write the numbers in the normal form.

- a. 800 thousand 50
- b. 25 thousand 4 hundred 7

11. Find the missing numbers.

a. $30,550 = 50 + \underline{\hspace{2cm}} + 500$	b. $809,100 = 800,000 + 100 + \underline{\hspace{2cm}}$
c. $725,608 = 20,000 + 700,000 + 8 + \underline{\hspace{2cm}} + 5,000$	

12. Compare, writing $<$, $>$, or $=$ between the numbers.

a. 54,500 55,400	b. 108,882 108,828	c. 71,600 61,700
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13. Write the numbers in order from the smallest to the greatest.

- 217,200 227,712 27,200 227,200

14. Round the numbers as the dashed line indicates (to the underlined digit).

- a. 436,102 \approx
- b. 897,56 \approx
- c. 27,529 \approx

15. Round to the nearest ten thousand.

- a. 426,889 \approx
- b. 495,304 \approx
- c. 7,345 \approx

16. Calculate. Line up all of the place value units carefully.

a. $476,708 + 24,392 + 563$

b. $405,112 - 81,424$

Multi-Digit Multiplication

17. Multiply, and find the missing factors.

a. $70 \times 3 = \underline{\hspace{2cm}}$	b. $6 \times 800 = \underline{\hspace{2cm}}$	c. $40 \times 80 = \underline{\hspace{2cm}}$
d. $\underline{\hspace{2cm}} \times 3 = 360$	e. $50 \times \underline{\hspace{2cm}} = 4,000$	f. $\underline{\hspace{2cm}} \times 300 = 21,000$

18. Ed earns \$20 per hour.

- a. How much will he earn in an 8-hour workday? _____
- b. How much will he earn in a 40-hour workweek? _____
- c. How many days will he need to work in order to earn at least \$600? _____

19. Multiply. Estimate the answer on the line.

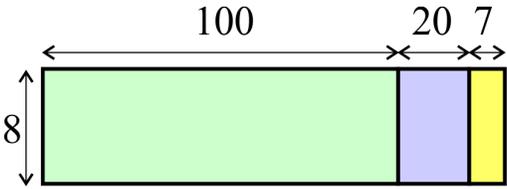
<p>a. 5×196</p> <p>\approx _____</p> <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																																			<p>b. 35×38</p> <p>\approx _____</p> <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																																			<p>c. $7 \times 3,188$</p> <p>\approx _____</p> <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																																			<p>d. 89×22</p> <p>\approx _____</p> <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																																		

20. Write the area of the *whole* rectangle as a SUM of the areas of the *smaller* rectangles. Lastly, add to find the total area.

Area = 8×127

= $\underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad}$

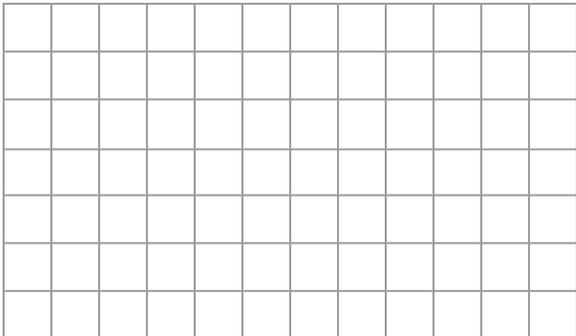
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21. Solve the problems. **Write a number sentence** or several for each problem.

a. Find the change, if Sally buys 26 shirts for \$14 each, and pays with \$400.

Estimate: _____



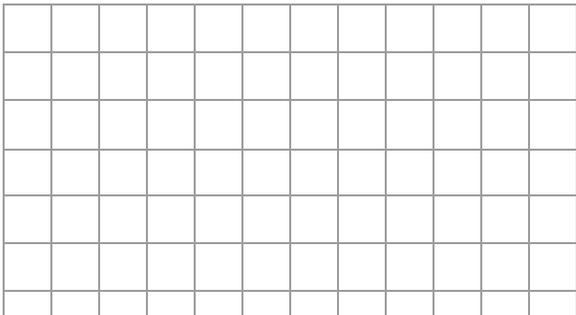
b. How many minutes are there in a day (24 hours)?



c. One side of a square is 375 cm. What is its perimeter?



d. Bicycles that cost \$277 were discounted by \$58. A store bought eight. What was the total cost?



Time and Measuring

22. Measure the lines below to the nearest eighth of an inch and also in centimeters and millimeters.



a. _____ in. or _____ cm _____ mm



b. _____ in. or _____ cm _____ mm

23. How much time passes from 10:54 a.m. till 5:06 p.m.?

24. Luis kept track of how long it took him to do his homework:

Monday	Tuesday	Wednesday	Thursday	Sunday
1 h 45 min	50 min	1 h 15 min	2 h 15 min	55 min

How much time did he spend with homework in total?

25. A teacher started her workday at 7:00 am, and stopped it at 3:35 pm. But in between, she had a 45-minute lunch break, and another break of 20 minutes. How many hours/minutes did she actually work?

26. Convert between the different measuring units.

a.	b.	c.
6 lb = _____ oz	5 gal = _____ qt	4 ft 2 in. = _____ in.
2 lb 11 oz = _____ oz	2 qt = _____ cups	7 yd = _____ ft

27. Convert between the different measuring units.

a.	b.	c.
2 kg = _____ g	5 L 200 ml = _____ ml	8 cm 2 mm = _____ mm
11 kg 600 g = _____ g	3 m = _____ cm	10 km = _____ m

28. George jogs daily on a track through the woods that is 3 km 800 m long.
What is the total distance he runs in four days?

29. Alice drank 350 ml of a 2-liter bottle of water.
How much is left?

30. The long sides of a rectangle measure 5 ft 6 in,
and the short sides are 3 ft 4 in.

What is the perimeter? _____ ft _____ in

Division and Factors

31. Divide. Check each problem by multiplying.

<p>a. $567 \div 9$ Check:</p> <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"><div style="position: absolute; top: 0; left: 0; right: 0; border-bottom: 1px solid black; height: 10px;"></div><div style="position: absolute; top: 0; left: 10px; font-size: 2em;">)</div></div>	<p>b. $8,564 \div 4$ Check:</p> <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"><div style="position: absolute; top: 0; left: 0; right: 0; border-bottom: 1px solid black; height: 10px;"></div><div style="position: absolute; top: 0; left: 10px; font-size: 2em;">)</div></div>
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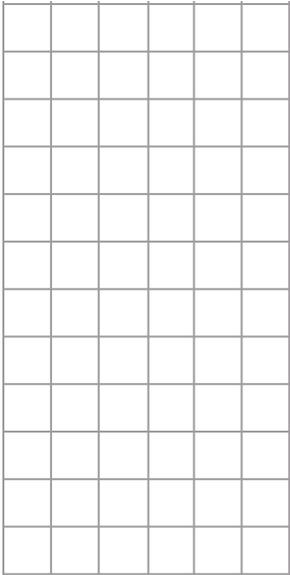
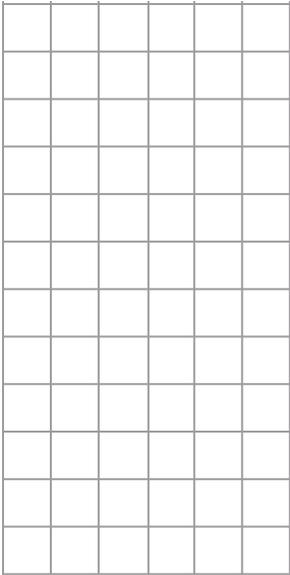
32. Solve.

a. $47 \div 5 = \underline{\quad\quad} R \underline{\quad}$	b. $25 \div 3 = \underline{\quad\quad} R \underline{\quad}$	c. $57 \div 9 = \underline{\quad\quad} R \underline{\quad}$
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33. Solve.

<p>a. Amy put 48 photographs into an online photo album. On each page she could fit nine photos. How many photos were on the last page?</p> <p>How many pages were full?</p>
<p>b. You bought a 50-foot roll of chain-link fence that cost \$150. Then you sold 12 feet of it to your neighbor. How much did your neighbor pay?</p>

34. Solve.

<p>a. Joe had saved \$264. He spent $\frac{3}{8}$ of that to buy a camera. How much did the camera cost?</p> <div style="text-align: center; margin-top: 20px;">  </div>	<p>b. Mary packed 117 muffins into bags of six. How many bags does Mary need for them?</p> <div style="text-align: center; margin-top: 20px;">  </div>
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35. Mark an X if the number is divisible by the given numbers.

number	divisible by 1	divisible by 2	divisible by 3	divisible by 4	divisible by 5	divisible by 6	divisible by 7	divisible by 8	divisible by 9	divisible by 10
80										
75										
47										

36. Fill in.

a. Is 5 a factor of 60? _____, because _____ \times _____ = _____.	b. Is 7 a divisor of 43? _____, because _____ \div _____ = _____.
c. Is 96 divisible by 4? _____, because _____.	d. Is 34 a multiple of 7? _____, because _____.

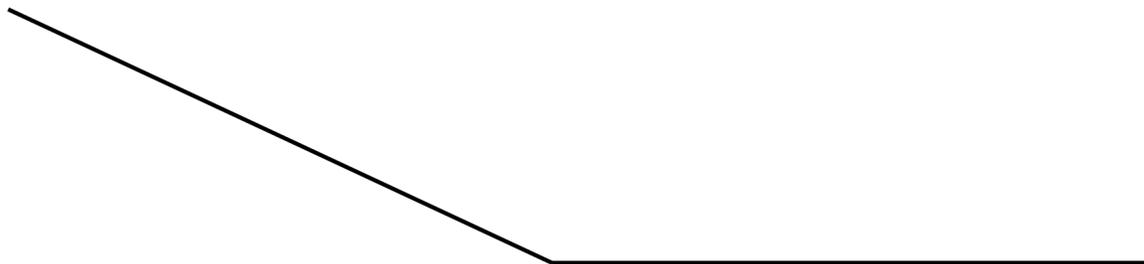
37. List three prime numbers.

38. Find all the factors of the given numbers.

a. 56 factors:	b. 78 factors:
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Geometry

39. Measure this angle.

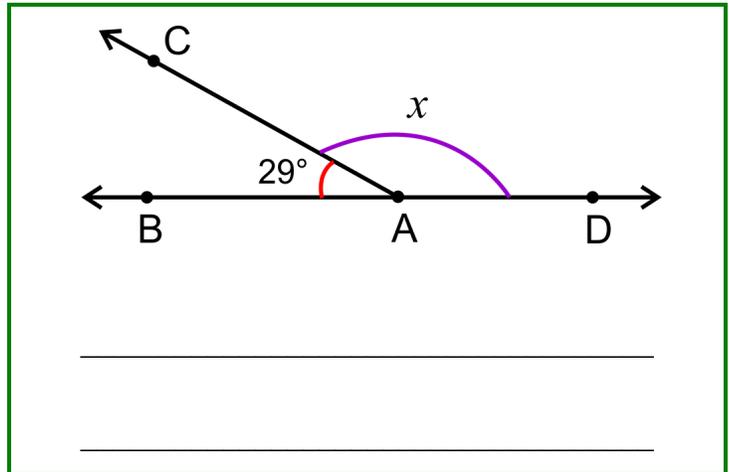


40. Draw here an angle of 65° .

41. Draw here any obtuse triangle, and measure its angles.

42. Write an addition sentence about the angle measures. Use an unknown (x) for one angle measure.

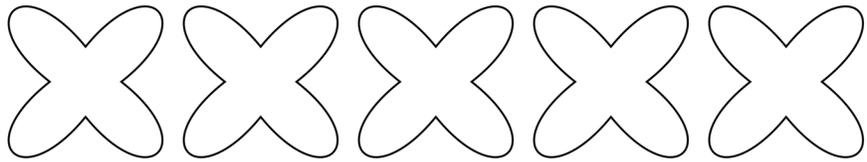
Then solve it.



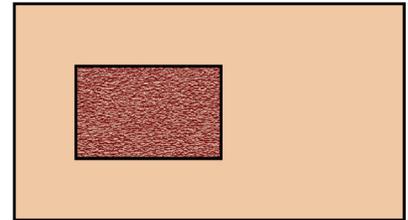
43. Sketch here any rectangle. Then draw a diagonal line in it (a line from corner to corner). What kind of triangles are formed?

44. Sketch here two line segments that are perpendicular to each other.

45. Draw as many different symmetry lines as you can into these shapes.

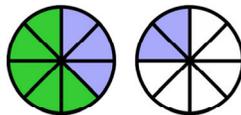


46. This picture shows the floor of a room with a carpet on the floor. The room itself measures 28 feet by 12 feet. The carpet is 6 ft by 10 ft. Find the area of floor outside the carpet (not including the carpet).



Fractions and Decimals

47. Write an addition to match the picture:



48. Erica did $\frac{1}{4}$ of a puzzle, and Mom did another fourth of it. How much of the puzzle is still left to do?

49. Add and subtract. Give your final answer as a whole number or as a mixed number if possible.

a. $\frac{4}{5} + \frac{3}{5} =$	b. $1\frac{1}{6} - \frac{2}{6} =$	c. $3\frac{6}{8} + 2\frac{2}{8} =$
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50. Split the existing pieces.
Fill in the missing parts.

<div style="border: 1px solid green; padding: 5px; margin-bottom: 10px;"> </div> <p>a. Each piece is split into 2 new ones.</p> $\frac{4}{5} = \frac{\text{yellow}}{\text{yellow}}$	<div style="border: 1px solid green; padding: 5px; margin-bottom: 10px;"> </div> <p>b. Each piece is split into ___ new ones.</p> $\frac{\text{yellow}}{\text{yellow}} = \frac{6}{9}$
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51. Write the equivalent fractions.

a. $\frac{2}{3} = \frac{\square}{15}$	b. $\frac{3}{5} = \frac{9}{\square}$	c. $\frac{1}{6} = \frac{\square}{12}$	d. $\frac{1}{3} = \frac{\square}{9}$
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52. Compare the fractions.

a. $\frac{2}{3} \square \frac{3}{8}$ b. $\frac{6}{5} \square \frac{7}{8}$ c. $\frac{11}{12} \square \frac{11}{10}$ d. $\frac{1}{3} \square \frac{5}{12}$

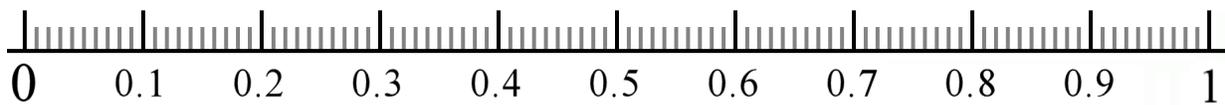
53. Write these fractions in order, from the smallest to the greatest: $\frac{5}{4}, \frac{7}{10}, \frac{65}{100}$

54. A recipe calls for $\frac{3}{4}$ cup of flour. If you triple the recipe, how much flour do you need?

55. Fill in.

a. $\frac{3}{8} = 3 \times \frac{\square}{\square}$	b. $4 \times \frac{2}{5} =$	c. $7 \times \frac{2}{12} =$
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56. Mark on the number line the following decimals: 0.55 0.08 0.27 0.80



57. Write the fractions and mixed numbers as decimals.

a. $\frac{3}{10}$	b. $3\frac{9}{10}$	c. $\frac{9}{100}$	d. $7\frac{45}{100}$
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58. Write the decimals as fractions or mixed numbers.

a. 0.6	b. 6.7	c. 0.21	d. 5.05
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59. Compare.

a. $0.17 \square 0.2$

b. $1.6 \square 1.56$

c. $13.09 \square 13.9$

d. $9.80 \square 9.8$

60. Add and subtract.

a. $7.81 + 5.2$

b. $6.1 - 2.36$
