

Answer key for The End of the Year Test, Grade 5

Please see the file for the End of the Year Test for grading instructions.

The Four Operations

- a. 45 b. 409,344
- a. $x = 296,430$ b. $y = 80$ c. $n = 3,304$
- The discounted price is \$57.60
- a. $42 \times 10 = (10 - 4) \times 70$ b. $143 = 13 \times (5 + 6)$



- The ratio of squares to all shapes is **2 : 7**.
- There are 38 green marbles.
- It would cost \$7.80 to download ten songs.

Large Numbers

- a. 70,016,090 b. 32,000,232,000
- It is about $32,000 \times 300 = 9,600,000$. Other estimates are also possible.
- 10.

<i>number</i>	593,204	19,054,947
to the nearest 1,000	593,000	19,055,000
to the nearest 10,000	590,000	19,050,000
to the nearest 100,000	600,000	19,100,000
to the nearest million	1,000,000	19,000,000

Decimals

- a. 0.289 b. 0.30 c. 0.305 d. 0.313
- a. 0.905 b. 0.72 c. 0.629
- a. 0.08 b. 0.081 c. 5.21
- a. $\frac{48}{1000}$ b. $1 \frac{4}{1000}$ c. $7 \frac{22}{100}$
- a. $0.31 > 0.031$ b. $0.43 > 0.093$ c. $1.6 > 1.29$

16.

rounded to...	nearest one	nearest tenth	nearest hundredth
5.098	5	5.1	5.10

rounded to...	nearest one	nearest tenth	nearest hundredth
0.306	0	0.3	0.31

17.

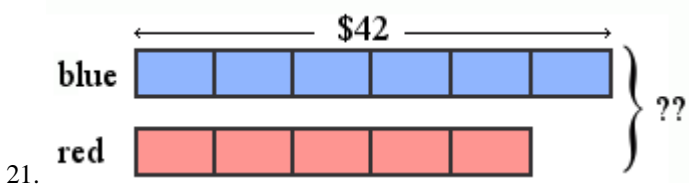
a. $0.4 \times 7 = 2.8$	d. $10 \times 0.005 = 0.05$	g. $0.11 \times 0.3 = 0.033$
b. $0.4 \times 0.7 = 0.28$	e. $100 \times 0.005 = 0.5$	h. $0.7 \times 0.9 = 0.63$
c. $0.4 \times 0.07 = 0.028$	f. $1000 \times 0.005 = 5$	i. $20 \times 0.09 = 1.8$

18.

a. $0.36 \div 6 = 0.06$	c. $3 \div 100 = 0.03$	e. $0.16 \div 10 = 0.016$
b. $0.056 \div 7 = 0.008$	d. $0.7 \div 10 = 0.07$	f. $71 \div 1000 = 0.071$

19. There are 444 milliliters in two bowls.

20. a. Karen paid approximately \$18 and Ann paid approximately \$12.
b. Karen paid \$17.94 and Ann paid \$11.96



The red swimsuit costs \$35. Together they cost \$77.

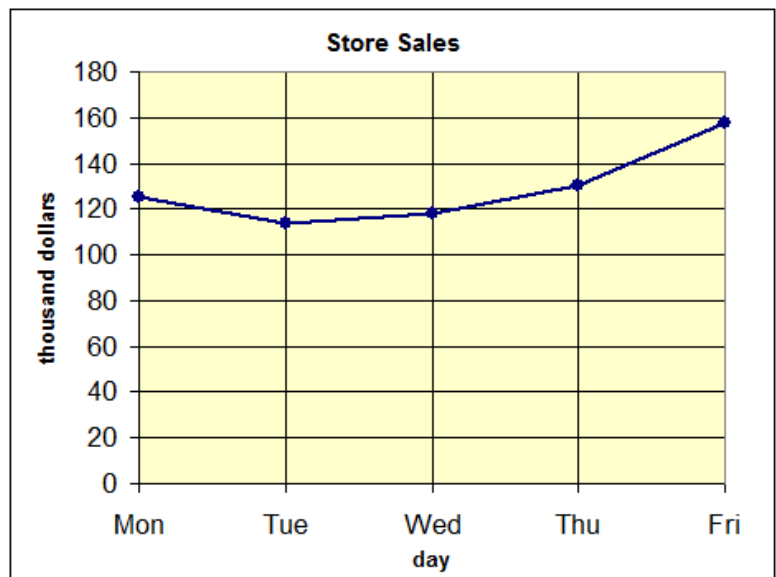
22. a. 1.428 b. 1.344

Graphs

23.

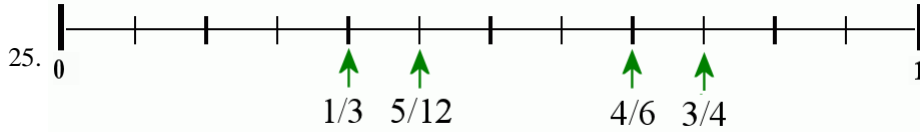
Day	Sales (1000 dollars)
Mon	125
Tue	114
Wed	118
Thu	130
Fri	158

- a. See the line graph on the right.
b. The average daily sales is \$129,000.



Fractions

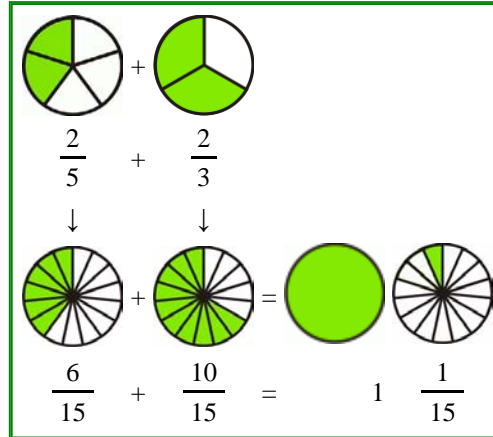
24. a. $6 \frac{3}{9}$ b. $2 \frac{2}{6}$ c. $13 \frac{8}{10}$



26.

a. $\frac{5}{6} = \frac{20}{20}$	b. $\frac{2}{7} = \frac{8}{28}$	c. $\frac{3}{8} = \frac{15}{40}$	d. $\frac{2}{9} = \frac{6}{27}$
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27. Mia finds the common denominator (15) correctly, but forgets that the 2 fifths and the 2 thirds do not stay as 2 fifteenths in the conversion.



28. a. $1 \frac{1}{6}$ b. $\frac{7}{15}$ c. $5 \frac{5}{8}$ d. $10 \frac{5}{18}$

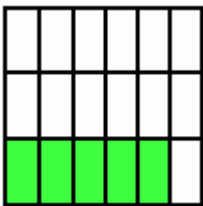
29. You would need $13 \frac{3}{4}$ cups of flour to make three batches of rolls.

30. a. $\frac{6}{9} > \frac{6}{13}$ b. $\frac{6}{13} < \frac{1}{2}$ c. $\frac{5}{10} > \frac{48}{100}$ d. $\frac{1}{4} = \frac{25}{100}$ e. $\frac{5}{7} > \frac{7}{10}$

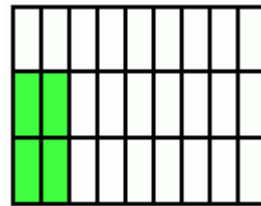
31. a. $1 \frac{2}{5}$ b. cannot be simplified c. $\frac{7}{8}$

32. Yes, it is correct. $\frac{2}{3} \times \frac{1}{2} = \frac{1}{3}$.

33.



a. $\frac{1}{3} \times \frac{5}{6} = \frac{5}{18}$



b. $\frac{2}{9} \times \frac{2}{3} = \frac{4}{27}$

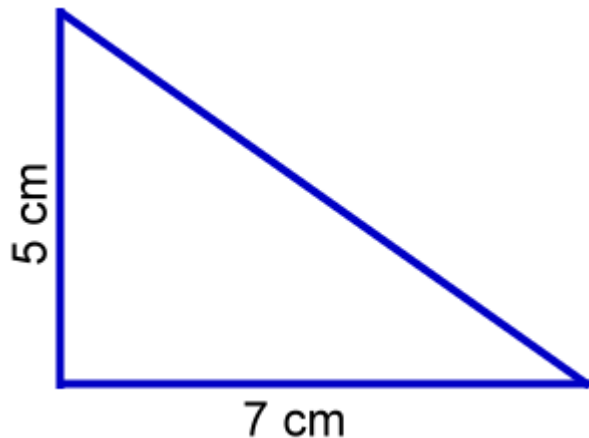
34. You can cut 24 pieces.

35. a. $\frac{63}{6} = 10 \frac{1}{2}$	b. $\frac{10}{21}$	c. $\frac{44}{15} = 2 \frac{14}{15}$	d. $\frac{45}{6} = 7 \frac{1}{2}$
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36. a. 2 : 3 b. 224 marbles

Geometry

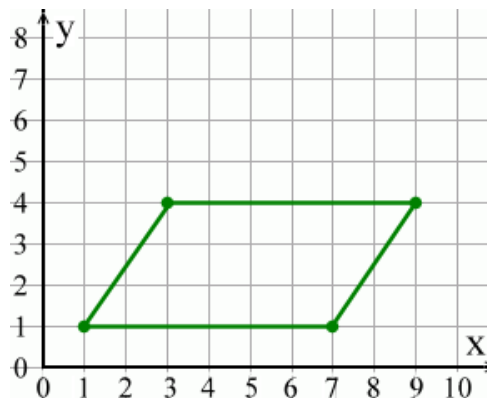
37. The sides measure $4\frac{7}{8}$ in., $2\frac{1}{2}$ in., and $2\frac{15}{16}$ in. The perimeter is $10\frac{5}{16}$ in.
38. a. an isosceles acute triangle b. a rhombus c. a right scalene triangle d. a trapezoid
39. a. 9 cm^2 b. 20 cm
40. a. The picture in the answer key may be slightly out of scale when printed, due to the possible scaling in the printing process.



- b. $8.6\text{ cm} + 5\text{ cm} + 7\text{ cm} = 20.6\text{ cm}$ c. 17.5 cm^2 d. They measure 90° , 36° , and 54° .
41. a. 15 square units b. $35 - 4 - 3 - 9 - 1.5 = 17.5$ square units
42. a. 220 cm^2 . The calculation is $2 \times 5\text{ cm} \times 4\text{ cm} + 2 \times 5\text{ cm} \times 10\text{ cm} + 2 \times 4\text{ cm} \times 10\text{ cm}$
 $= 40\text{ cm}^2 + 100\text{ cm}^2 + 80\text{ cm}^2 = 220\text{ cm}^2$.
- b. $4\text{ cm} \times 10\text{ cm} \times 5\text{ cm} = 200\text{ cm}^3$.
43. 10.6 cm^2 .
 We will find the areas of the four parts separately.
 1. Rectangle $2.5\text{ cm} \times 1\text{ cm} = 2.5\text{ cm}^2$. 2. Rectangle $1.5\text{ cm} \times 1\text{ cm} = 1.5\text{ cm}^2$.
 3. Triangle $2.4\text{ cm} \times 2.5\text{ cm} / 2 = 3\text{ cm}^2$. 4. Rectangle $1.5\text{ cm} \times 2.4\text{ cm} = 3.6\text{ cm}^2$.
 In total, the area is $2.5\text{ cm}^2 + 1.5\text{ cm}^2 + 3\text{ cm}^2 + 3.6\text{ cm}^2 = 10.6\text{ cm}^2$.

44. a. $1.2\text{ m} \times 0.6\text{ m} \times 1\text{ m} = 0.72\text{ m}^3$.
 b. 240 liters. 0.72 m^3 is 720 liters.

45. a. See the image on the right.
 b. A parallelogram.
 c. 18 square units



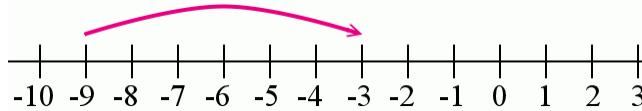
Integers

46. a. $-3 > -6$	b. $2 > -3$	c. $-9 < -5$	d. $-4 < 0$
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47. a. $-5 + (-4) = -9$ b. $-5 + 4 = -1$ c. $-3 + 3 = 0$

48.

a. $-9 + 6 = -3$



b. $-3 + 5 = 2$



49.

a. $4 + (-7) = -3$

b. $(-6) + 6 = 0$

c. $2 + (-9) = -7$

d. $(-7) + (-8) = -15$

e. $2 + (-8) + (-3) = -9$

f. $(-4) + 2 + 9 = 7$

Percent

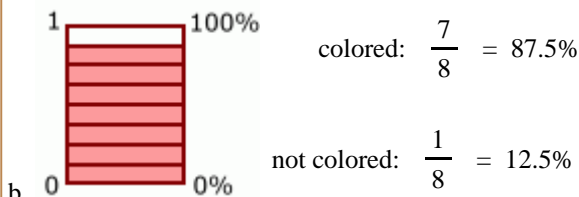
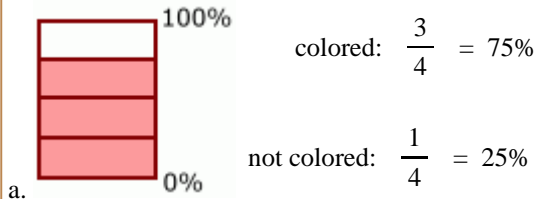
50.

a. $2\% = \frac{2}{100} = 0.02$

b. $70\% = \frac{70}{100} = 0.70$

c. $67\% = \frac{67}{100} = 0.67$

51.



52.

percentage / number	1,100	500	70	31
1% of the number	11	5	0.7	0.31
7% of the number	77	35	4.9	2.17
10% of the number	110	50	7	3.1
40% of the number	440	200	28	12.4