May 9, 2026 Saturday Review Answer key

Saturday Review Worksheet 05/24

1. Find the product. Write your answer as a decimal.

$-3.1 \cdot 4.5 = -13.95$

$-3.1(4.5) =$ ☐

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2. Evaluate the expression $3.8 - |-8.3 - 2.3|$.

$3.8 - |-10.6| = 3.8 - 10.6$

$3.8 - |-8.3 - 2.3| =$ ☐ -6.8

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3. Find the sum. Write your answer in simplest form as a fraction or mixed number.

$-\frac{7}{4} + \frac{5}{8} =$ ☐

x2 $= -\frac{14}{8} + \frac{5}{8} = \frac{-9}{8} \,/\, -\frac{9}{8} \,/\, \frac{9}{-8}$ x2

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4. Find the sum. Write your answer as a decimal.

$-7.33 - 7.6 = -14.93$

$-7.33 + (-7.6) =$ ☐

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5. Find the sum. Write your answer in simplest form.

$-\frac{5}{2} + \frac{5}{2} =$ ☐ 0

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6. Find the difference. Write your answer as a decimal.

$-6.82 - (-8.88) =$ ☐

$-6.82 + 8.88$

$= 2.06$

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7. Find the product. Write your answer as a fraction or a mixed number in simplest form.

$-1\frac{1}{2} \cdot \left(-1\frac{4}{5}\right) =$ ☐

$= -\frac{1\times2+1}{2} \cdot \left(-\frac{1\cdot5+4}{5}\right)$

$= -\frac{3}{2} \cdot \left(-\frac{9}{5}\right) = \frac{27}{10}$

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8. Factor the expression $8x + 12$ using the GCF.

Find GCF first

$8x + 12 =$ ☐

8: 2, 4

12: 2, 2, 3

$2 \cdot 2 = 4 \rightarrow$ GCF

$4(2x + 3)$

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9. Factor the expression $30x + 40$ using the GCF.

$30x + 40 =$ ☐ $10(3x + 4)$

Reverse distributive property

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10. Find the sum.

$\left(\frac{5}{8}x - 3\right) + \left(\frac{1}{4}x - 11\right) =$ ☐

$= \frac{5}{8}x - 3 + \frac{1}{4}x - 11$

$= \frac{5}{8}x + \frac{2}{8}x - 3 - 11$

$= \frac{7}{8}x - 14$

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11. Find the sum.

$\left(\frac{3}{8}x - 8\right) + \left(\frac{3}{8}x - 3\right) =$ ☐

$= \frac{3}{8}x - 8 + \frac{3}{8}x - 3$

$= \frac{3}{8}x + \frac{3}{8}x - 8 - 3$

$= \frac{6}{8}x - 11$

$= \frac{3}{4}x - 11$

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12. Find the difference.

$\left(\frac{7}{8}x - 8\right) - \left(\frac{1}{8}x - 12\right) =$ ☐

$= \frac{7}{8}x - 8 - \frac{1}{8}x + 12$

$= \frac{7}{8}x - \frac{1}{8}x - 8 + 12$

$= \frac{6}{8}x + 4 = \frac{3}{4}x + 4$

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13. Simplify $\frac{1}{6}(12x - 30) + 4x$.

$\frac{1}{6}(12x - 30) + 4x =$ ☐

$= \frac{1}{6} \cdot 12x - \frac{1}{6} \cdot 30 + 4x$

$= 2x - 5 + 4x$

$= 6x - 5$

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14. Are the expressions $4\left(\frac{3}{4}x - 2\right)$ and $\frac{4}{3}(3x - 2) - x$ equivalent?

- ○ Yes, both simplify to $3x - 8$.
- ○ Yes, both simplify to $4x - 8$.
- ○ No, one simplifies to $3x - 8$ and the other to $4x - 8$.
- ○ No, one simplifies to $3x - 2$ and the other to $4x - 8$.

$4\left(\frac{3}{4}x - 2\right)$

$= 4 \cdot \frac{3}{4}x - 4 \cdot 2$

$= 3x - 8$

$\frac{4}{3}(3x - 2) - x$

$= \frac{4}{3} \cdot 3x - \frac{4}{3} \cdot 2 - x$

$= 4x - \frac{8}{3} - x$

$= 3x - \frac{8}{3}$

None of them is right

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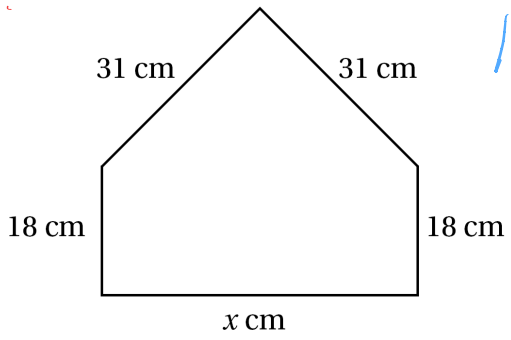
15. The perimeter of the figure is 141 centimeters. Solve for x.

★ Not area!



$141 - 31 - 31 - 18 - 18$

$= 43\text{cm}$

$x =$ ☐

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16. Solve the equation.

$3n = -27$

$\frac{3n}{3} = \frac{-27}{3}$

$n =$ ☐

$n = -9$

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17. Write the word sentence as an equation.

The product of a number n and 8 is 16.

$\cdot$ n $=$

An equation is ☐.

$8 \cdot n = 16$ / $n \cdot 8 = 16$

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18. Solve $10 = \frac{5m}{4}$.

$\frac{10}{1} = \frac{5m}{4}$

$1 \cdot 5m = 10 \cdot 4$

$5m = 40$

$\frac{5m}{5} = \frac{40}{5}$

$m = 8$

$m =$ ☐

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19. Solve $x + 15 = 16$.

$x = 16 - 15$

The solution is $x =$ ☐.

$x = 1$

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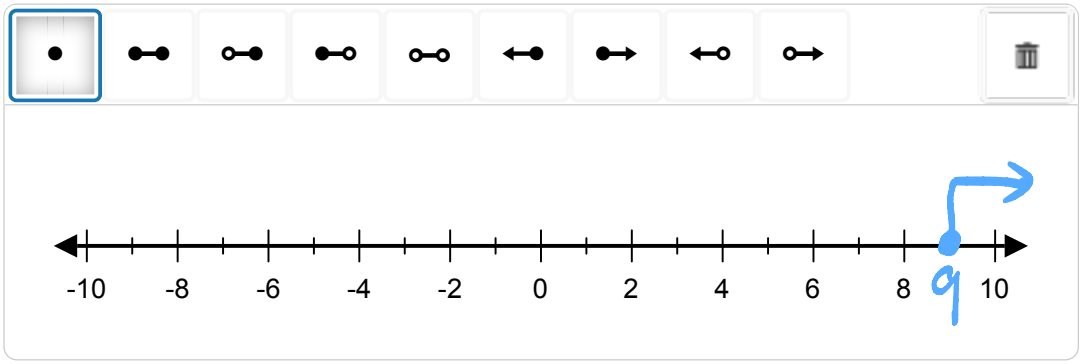
20. Graph the solution of $x - 7 \geq 2$.

$x \geq 2+7 \quad x \geq 9$



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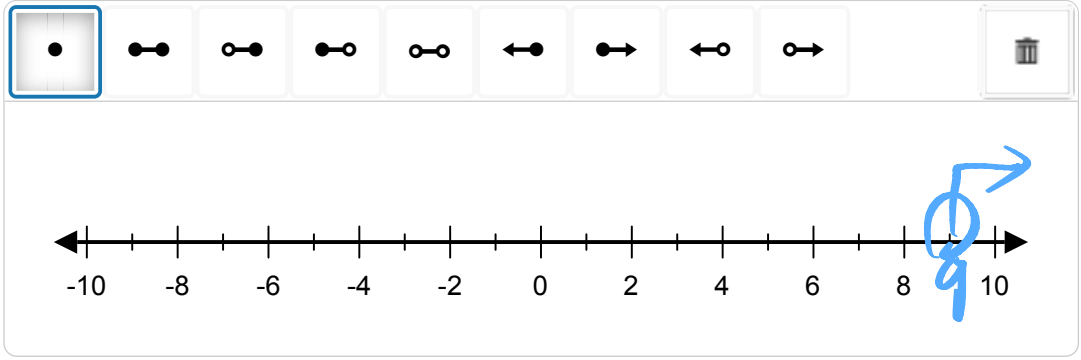
21. Graph the solution of $x - 6 > 3$.

$x > 3+6 \quad x = 9$



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22. Solve $15 = \frac{3p}{6}$.

$\frac{15}{1} = \frac{3p}{6}$

$1 \cdot 3p = 15 \cdot 6$

$3p = 90$

$p = 30$

$p =$ ☐

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23. Tell whether $x = -4$ is a solution of $16 = -8x$.

$-8x = 16$

$x = \frac{16}{-8}$

$x = -2$

yes no

so No

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24. Solve $x - 15 = -3$. $x = -3 + 15$

The solution is $x =$ ☐. $x = 12$

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25. Write the word sentence as an inequality.

A number q minus 8 is less than 14 .

$q - 8 < 14$

An inequality is ☐.

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26. Complete the statement. $1\text{mm} = 0.1\text{cm}$

90 mm = 9 cm

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27. You run 20 laps in 6 minutes. Your friend runs 30 laps in 9 minutes. Are the rates equivalent?

yes

- (●) yes
- ( ) no

you: $\frac{20 \text{ laps}}{6 \text{ min}} = 3.\overline{33}$ laps/min

Friend: $\frac{30 \text{ laps}}{9 \text{ min}}$ $3.\overline{33}$

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28. Solve the proportion.

$\frac{x}{9} = \frac{12}{27}$

$27 \cdot x = 9 \cdot 12$

$27x = 108$

$\frac{27x}{27} = \frac{108}{27}$

$x = 4$

$x =$ ☐

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29. Write a unit rate for the situation.

Situation: 20 bracelets in 5 hours $\frac{20\text{ b}}{5\text{ h}} = 4\text{ b/h}$

Unit rate: 4 bracelets per hour

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30. You earn $35 for washing 5 cars. How much do you earn for washing 3 cars?

You earn $21 for washing 3 cars. $\frac{\$35}{5\text{ cars}} = \$7/\text{car}$, $\$7 \cdot 3 = \$21$

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31. Complete the ratio tables.

Soup A		
Sodium (grams)	3	30
Soup (cups)	13	130

(×10 from 3 to 30; ×10 from 13 to 130)

Soup B		
Sodium (grams)	9	117
Soup (cups)	10	130

(×13 from 10 to 130)

Which soup has more sodium per cup?

- ○ Soup A
- ⊗ Soup B

$117 > 130$

B > A

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32. Solve the proportion.

$\frac{2}{7} = \frac{14}{x}$

$2 \cdot x = 7 \cdot 14$

$2x = 98$

$\frac{2x}{2} = \frac{98}{2}$

$x = 49$

$x =$ ☐

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means → you add 20% of $20 to the original price

20% of $20

= 20% · $20 = 0.2 · 20 = $4

33. Find the selling price of a $20 item after a 20% markup.

The selling price is $ [ ].

So $20 + 4 = $24

24

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34. Write the decimal as a percent.

×100%

$0.02 = [2]\ \%$

1 2

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35. Write $\frac{1}{20}$ as a percent.

$\frac{1}{20} = 0.05$ ×100%

$= 5\%$

$\frac{1}{20} = [\ ]\ \%$

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36. Write the percent as a decimal.

$15\% = [\ ]$ 0.15

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37. Write $\frac{3}{20}$ as a percent.

$\frac{3}{20} = 0.15$

$= 15\%$

$\frac{3}{20} = [15]\ \%$

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38. What number is 86% of 50?

$x = 86\% \cdot 50$ → Convert it into the equation first

[ ] is 86% of 50. $x = 0.86 \cdot 50$

$x = 43$

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39. What number is 58% of 50?

↳ $x = 58\% \cdot 50$

29 is 58% of 50.

$x = 0.58 \cdot 50$

$x = 29$

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40. 25% of what number is 39?

25% of $x = 39$

25% of ☐ is 39.

$0.25 \cdot x = 39$

$x = 39 \div 0.25$

$x = 156$

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41. 10% of what number is 13?

we don't know what #, so we use x

$10\% \cdot x = 13$

$0.1 \cdot x = 13$

10% of ☐ is 13.

$x = 13 \div 0.1$

$x = 130$

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42. Find the original price of a salt lamp that is $76 after a 20% discount.

Let the original price be x.

$0.8x = 76$

$x = 76 \div 0.8$

$x = 95$

$95

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⇓ means it costs 80% of the original price

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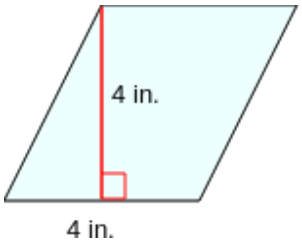
43. Find the area of the parallelogram.



$A = b \cdot h$

$= 4 \times 4$

$= 16 \text{ in}^2$

$A =$ ☐ in.^2

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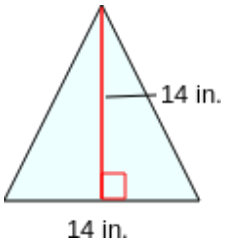
44. Find the area of the triangle.



$A = \frac{1}{2} \cdot b \cdot h$

$= \frac{1}{2} \cdot 14 \cdot 14$

$= 7 \cdot 14$

$= 98 \text{ in}^2$

$A =$ ☐ in.^2

Grade 6 Accel: FL 2023>Chapter 10>Chapter 10: Mid Quiz (1 - 6)> Question #2

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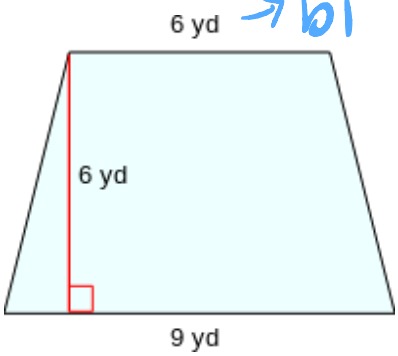
45. Find the area of the trapezoid.



b_1 → 6 yd

b_2 → 9 yd (base)

$A = \frac{(b_1 + b_2) \cdot h}{2}$

$= \frac{(6 + 9) \cdot 6}{2} = \frac{15 \cdot 6}{2}$

$= \frac{90}{2} = 45 \text{ yd}^2$

$A =$ ☐ yd^2

45

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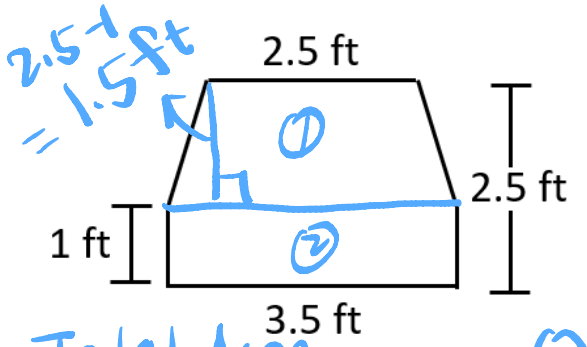
46. A worker charges $70 per square foot to install windows. How much does it cost to install the window shown?



$ 560

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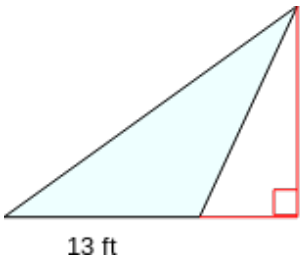
47. Find the area of the triangle.



$A =$ ☐ ft^2

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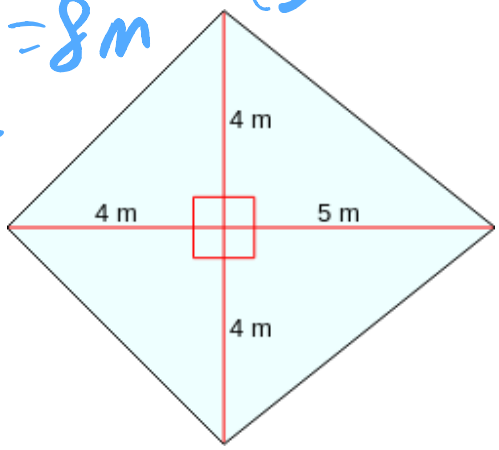
48. Find the area of the kite.



$d_1 = 4+4 = 8m$

$d_2 = 4+5 = 9m$

$A = \frac{d_1 \cdot d_2}{2}$

$= \frac{8 \times 9}{2}$

$= \frac{72}{2} = 36m^2$

$A =$ ☐ m^2

36

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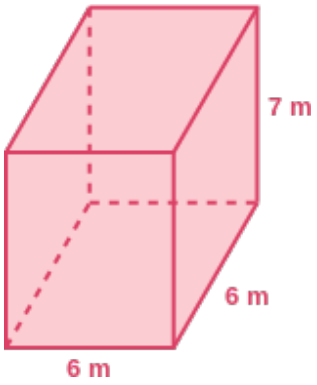
49. Find the surface area of the rectangular prism.



$SA = 2(lw + lh + wh)$

$= 2(6 \cdot 6 + 6 \cdot 7 + 6 \cdot 7)$

$= 2(36 + 42 + 42)$

$= 2 \cdot 120$

$= 240 m^2$

$S =$ ☐ m^2

240

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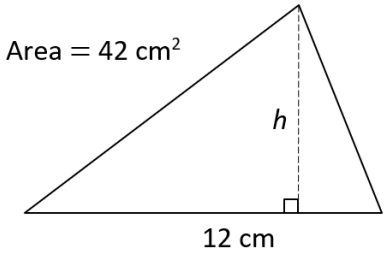
50. Find the height of the triangle.



7 cm

$A = \frac{1}{2} \cdot b \cdot h$

$42 = \frac{1}{2} \cdot 12 \cdot h$

$42 = 6 \cdot h$

$6h = 42$

$h = 42 \div 6$

$h = 7$ cm

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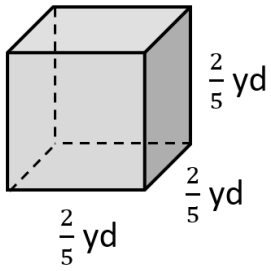
51. Find the volume of the rectangular prism. Write your answer as a fraction.



$\square$ yd^3

$V = l \cdot w \cdot h$

$= \frac{2}{5} \cdot \frac{2}{5} \cdot \frac{2}{5}$

$= \frac{4}{25} \cdot \frac{2}{5}$

$= \frac{8}{125}\ yd^3$

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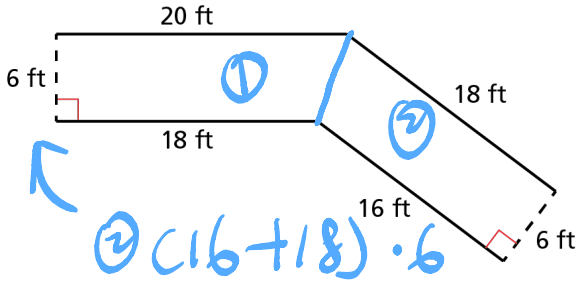
52. The owner of a sports complex wants to carpet a hallway connecting two buildings. The carpet costs $2.50 per square foot. How much does it cost to carpet the hallway?



$540

total Area

① + ②

$= 114 + 102$

$= 216\ ft^2$

$\$2.5 \cdot 216$

$= \$540$

① $\frac{(18+20) \cdot 6}{2}$

$= \frac{38 \cdot 6}{2} = \frac{228}{2}$

$= 114\ ft^2$

② $\frac{(16+18) \cdot 6}{2}$

$= \frac{34 \cdot 6}{2} = \frac{204}{2}$

$= 102\ ft^2$

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53. Find the range of the data.

53, 8, 90, 78, 37

range = ☐

Range = biggest # − smallest #

= 90 − 8 = 82

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54. Find the interquartile range of the data.

20, 29, 17, 25, 19, 25, 23, 20, 25, 11, 12

IQR = 8

① 1st step: order smallest → biggest #

⟨11, 12, 17, 19, 20, 20, 23, 25, 25, 25, 29⟩ (Q1, Q2, Q3)

② Find Q2 (median) = 20

③ Q1, middle # between 11 → 20 = 17

Q3 = 25

Q3 − Q1 = 25 − 17 = 8

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55. Identify the outlier in the data set.

88, 82, 88, 89, 84, 138, 83, 81, 83, 89, 86, 89

The outlier is 138

outlier is the # either really big or really small, comparing with other #s in the data set.

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Small outlier: # < Q1 − 1.5 · IQR

Big outlier: # > Q3 + 1.5 · IQR

① order: ⟨81, 82, 83, 83, 84, 86, 88, 88, 89, 89, 89, 138⟩ (Q1, Q2 = 87, Q3 = 89)

② Q2 $\frac{86+88}{2} = \frac{174}{2} = 87$

③ $Q_1 = \frac{83+83}{2} = 83$ $Q_3 = \frac{89+89}{2} = 89$

④ IQR = Q3 − Q1 = 89 − 83 = 6

SO: # < 83 − 1.5 · 6 # < 83 − 9 # < 74 → no #s < 74 in data, so no small outlier

BO: # > 89 + 1.5 · 6 # > 89 + 9 # > 98 → 138 is big outlier, bc it's > 98

So 138 is the outlier of the dataset

56. The table shows the gas mileages of several vehicles made by a company.

Mileage (miles per gallon)					
19	27	19	22	20	23
23	30	15	30	34	18
15	24	16	23	26	16
22	15	17	28	23	30
15	28	25	15	19	17

No outliers

The mean and median the most appropriate measure(s) to describe the center. The [ ] the most appropriate measure(s) to describe the variation. Range and IQR

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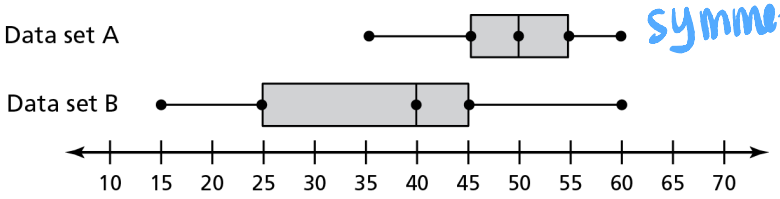
57. Two data sets contain an equal number of values. The double box-and-whisker plot represents the values in the data sets. Compare the data sets using measures of center and variation.



symmetric

- ○ Data set A has a greater measure of center, and Data set A has a greater measure of variation.
- ● Data set A has a greater measure of center, and Data set B has a greater measure of variation.
- ○ Data set B has a greater measure of center, and Data set A has a greater measure of variation.
- ○ Data set B has a greater measure of center, and Data set B has a greater measure of variation.

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