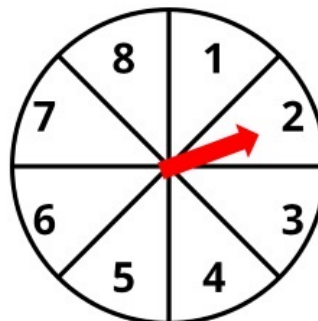


C/D

Use the diagram of a spinner to answer the question.

Jake is at a work party. At the party, each employee gets to spin the dial twice in a row. Prizes are given, depending on what number the dial lands on.



Spinner

- (A) If the dial lands on an odd number, the employee wins a \$20 gift card. (4)
 (B) If the dial lands on 2, 4, or 6, the employee wins a free dinner for two. → {2, 4, 6} (3)
 (C) If the dial lands on 8, the employee wins a \$50-bill. → {8} (1)

What is the probability that Jake will win a \$50-bill and a \$20 gift card?

↳ "likelihood" or "chance"

☐ $\frac{1}{10}$

☒ $\frac{1}{16}$

☐ $\frac{1}{8}$

☐ $\frac{1}{14}$

(A) $\frac{4}{8} \Rightarrow \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$

(B) $\frac{3}{8}$

(C) $\frac{1}{8}$ "1 out of 8"

*fractions

"parts of a whole"

*greatest common factor

Turn #1
 $\frac{1}{8}$

#2
 $\frac{1}{2}$

*Independent events
& dependent

• Multiply: $\frac{1}{8} \times \frac{1}{2} = \frac{1 \times 1}{8 \times 2} = \left(\frac{1}{16} \right)$

A/B

About how much gas is in the gas tank?

☐ three-fourths of a tank

$\frac{3}{4}$

☐ two-thirds of a tank

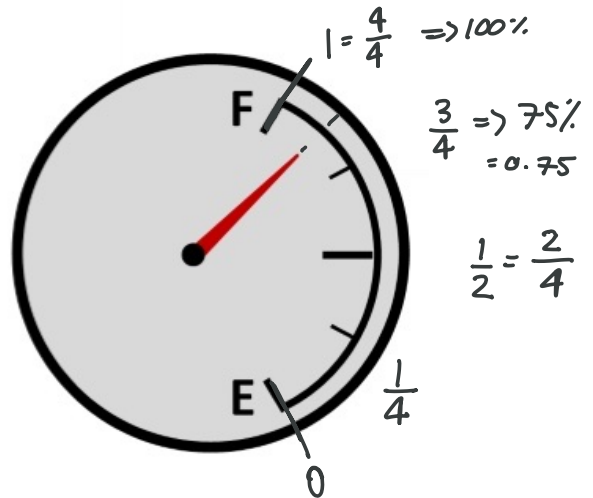
$\frac{2}{3} = 0.66$

☒ five-sixths of a tank

$\frac{5}{6} = 0.833$

☐ two-fifths of a tank

$\frac{2}{5}$



- Amount of gas is greater than $\frac{3}{4}$ (75%) but less than a full tank $\frac{4}{4}$ (100%)

Percent Problems

- ① What is 20% of \$32.70? → Multiplication

$$20\% \Rightarrow \frac{20}{100} = \frac{20.0}{100} = 0.20$$

$$X = 0.20 \times 32.70$$

partial = Percent \times whole part

$$0.20 \times 32.70 = 6.54 \Rightarrow \$6.54 = X$$

"\$6.54 is 20% of \$32.70"

- ② 11.5 is 80% of what number? 14.37

$$\$11.5 \times 0.8 = \$9.2$$

"\$11.50 is 80% of \$9.20"

partial = Percent \times whole part

$$\frac{11.5}{80\%} = \frac{80\% \times \text{"What number"}}{80\%}$$

$$\frac{11.5}{0.80} = \text{"What number"}$$

$$14.37 = \text{"What number"}$$

*We want
"What number" = _____

$$\frac{80\%}{80\%} = 1$$

*Inverse operation

$$\times \frac{X}{X} = 1$$

$$\times X \cdot 1 = X$$

③

A car insurance company paid \$1,758.90 to repair a car that had been rear ended. This was 75% towards the total cost of the repair. What was the total cost?

\$2,785.20

\$3,126.93

\$5,276.70

\$2,345.20 ✓

$$\times \text{Partial} = \text{Percent} \cdot \text{Whole Part}$$

$$\$1,758.90 = 75\% \cdot \text{Total Cost}$$

$$\frac{\$1,758.90}{0.75} = \frac{0.75}{0.75} \cdot \text{Total Cost}$$

$$\$2,345.20 = \text{Total Cost}$$

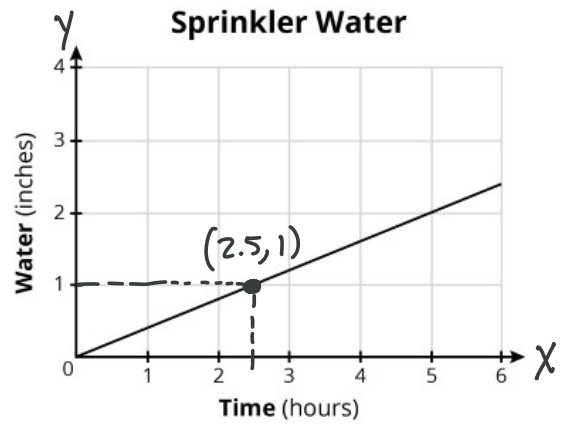
* Properties of
mult. and division

A/B

George left the sprinkler on for 6 hours. The graph shows how much water was in a bucket near the sprinkler.

How long did it take for the bucket to have 1 inch of water?

- ☒ 2 hours, 30 minutes
- ☐ 2 hours, 50 minutes
- ☒ 1 hour, 30 minutes
- ☒ 3 hours, 10 minutes



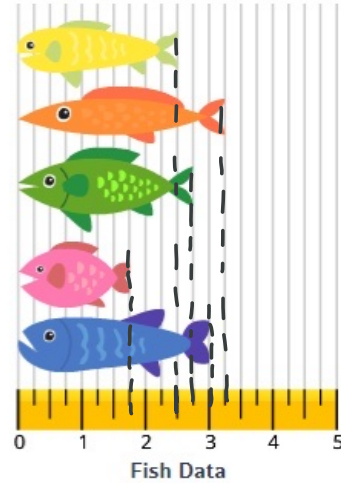
A/B

✗ Essential Ed is incorrect ✗

What is the average length of the fish?

- ☐ 2.25 inches
- ☐ 2.75 inches
- ☐ 2.6 inches
- ☐ 2.5 inches

- Measure each fish
- Add up the lengths
- Divide by the # of fish (5)



$$3, 1.75, 2.75, 3.25, 2.5 = 13.25$$

$$13.25 \div 5 = 2.65$$