

(13) $3^{\frac{5}{4}} (\sqrt[4]{3})^5$

(16) $\sqrt[4]{x^3} \cdot x^{\frac{3}{4}}$

May 2-11:41 AM

(43) $y = 8000p^2$

$\frac{9905.54}{8000} = \frac{8000p^{(\frac{11}{3})}}{8000}$

$1.2382 = p^{11/3 \cdot 3/11}$

$p = 1.06$

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(29) add powers $b^{\frac{1}{2}} \cdot b^{\frac{1}{4}} = b^{\frac{3}{4}}$

(30) $b^{\frac{3}{4}}$

(31) multiply powers

(32)

(33) subtract powers

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(39) $4 = \sqrt[3]{2}$

$4 = \sqrt[3/2]{2}$

$8 = \sqrt[2]{2}$

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(55) $(1+i)(1+i)(1+i)(1+i)$

$1 \cdot 1 \cdot 1 \cdot i$

i

i

1

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(58) $5 + \frac{5i}{2}$

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$$35 = 5 \cdot r^{\frac{1}{2}}$$

$$\frac{35}{5} = \frac{5 \cdot r^{\frac{1}{2}}}{5}$$

$$7 = r^{\frac{1}{2}}$$

$$49 = r$$

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$$\textcircled{45} \frac{6 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \frac{6\sqrt{2}}{2} = \boxed{3\sqrt{2}}$$

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11.1

$\textcircled{9} M \textcircled{1} M^c$
Not in M

\emptyset
 $\{ \}$
the empty set

May 2-12:00 PM

$$P(A \cap B) = P(A) \cdot P(B)$$

and independent event

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

or

May 2-12:03 PM

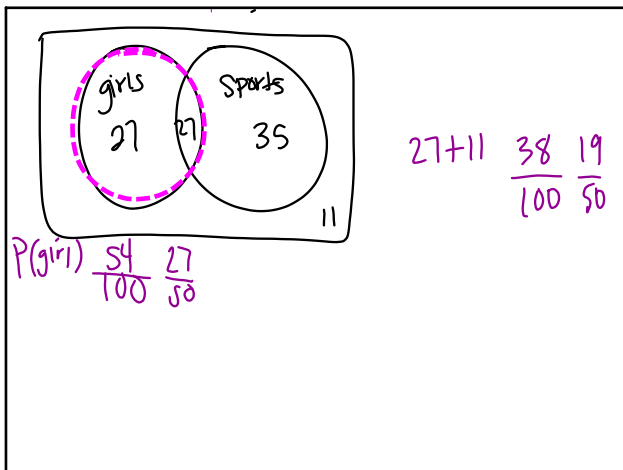
$$\textcircled{28} P(E \cup S) = \frac{7}{10}$$

$$P(E \cup S) = \frac{4}{10} + \frac{4}{10} - \frac{1}{10} = \frac{7}{10}$$

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$$\textcircled{30} \frac{8}{10} \boxed{\frac{4}{5}}$$

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May 2-12:10 PM

(36) $\frac{27+27+35}{100}$
 $\frac{89}{100}$

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(38) $\frac{11}{200}$
 (39) $\frac{9}{200}$

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Independent events
 $P(A \cap B) = P(A) \cdot P(B)$
 $.32 = (.42) \cdot (.25)$
 ~~$.32 = .105$~~
 Not independent

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(5) $P(\text{male}) = \frac{20}{50} = .40$
 $P(\text{TV}) = \frac{16}{50} = .32$
 event A = male
 event B = TV

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$P(m \cap TV)$
 $\frac{8}{50} = .16$
 $P(m) \cdot P(TV) = P(m \cap TV)$
 ~~$(.40)(.32) = .16$~~

May 2-12:23 PM

Conditional Probability
 $A|B$ A given B B is for sure

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

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$P(\text{Vanilla} | \text{Blue})$

$$\frac{5 \text{ Blue \& Vanilla}}{12 \text{ Blue}}$$

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c) blue | choc

$$\frac{7}{13}$$

May 2-12:28 PM

$$\frac{.27}{.48} = .5625$$

$$B) P(F | \text{No}) = \frac{.19}{.40}$$

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(16) $(.30)(.12) = (m|w)$

$$\boxed{.036}$$

 $f|work$

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- 11.2 7-end 19
 - yellow mystery puzzle

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