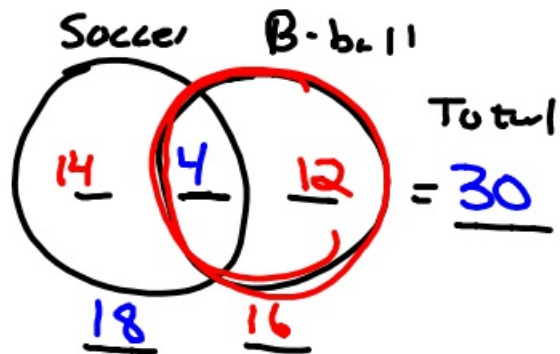


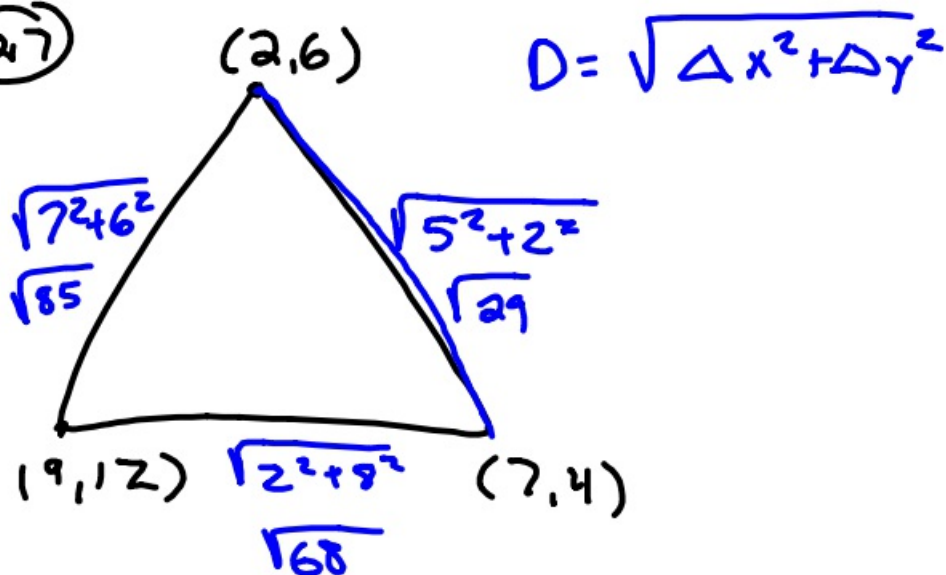
9-20-18 5th Geo

Ch. 2 PT 2

(25)

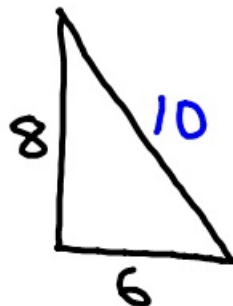


(27)



$$P = \sqrt{85} + \sqrt{68} + \sqrt{29} =$$

(28)

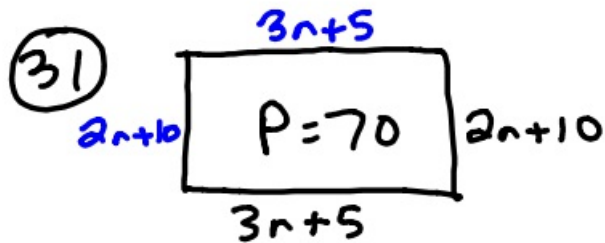


$$8^2 + 6^2 = c^2$$

$$100 = c^2$$

$$10 = c$$

$$P = 8 + 6 + 10 = 24 \text{ cm}$$



$$3n+5+3n+5+2n+10+2n+10=70$$

$$10n+30=70$$

$$n=4$$

26 $A = 380.13 \text{ cm}^2$ so what is C?

$$A = \pi r^2$$

↓

$$\frac{380.13}{\pi} = \frac{\pi \cdot r^2}{\pi}$$

$$\sqrt{121} \approx \sqrt{r^2}$$

$$r \approx 11$$

$$C = \pi \cdot d$$

$$= \pi \cdot 22$$

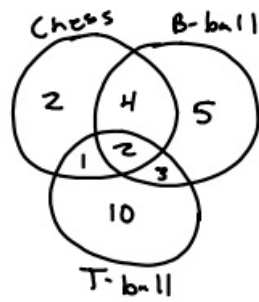
$$\approx 69.1 \text{ cm}$$

• New

① If $\angle A = \angle B$ and $\angle B = 60^\circ$, then
 $\angle A = 60^\circ$
 $\angle A = \angle B = 60$
 Transitive

② If $\angle 1 = 30^\circ$ and $\angle 1 + \angle 2 = \angle 3$,
 then $\underline{30^\circ + \angle 2 = \angle 3}$,
 according to substitution.

③ Oral questions



④ What is area of



$$\begin{aligned} a^2 + b^2 &= c^2 \\ a^2 + 7^2 &= 25^2 \\ a^2 + 576 &= 625 \\ \underline{-576 \quad -576} & \\ a^2 &= 49 \\ a &= 7 \end{aligned}$$

$$\begin{aligned} A &= \frac{1}{2} \cdot b \cdot h \\ &= \frac{1}{2} \cdot 24 \cdot 7 \\ &= 84 \text{ cm}^2 \end{aligned}$$

⑤ If $\angle 1 - \angle 8 = \angle 2 - \angle 8$, then $\angle 1 = \angle 2$.
Addition (+ $\angle 8$)

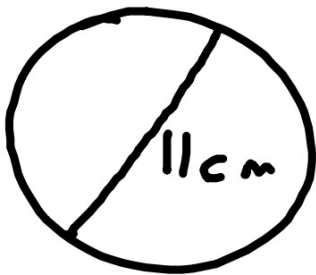
⑥ What is area of circle with a circumference of 37.6991 cm?

$$\begin{aligned} C &= \pi \cdot d \\ \frac{37.6991}{\pi} &= \frac{\pi \cdot d}{\pi} \\ 12 &= d \\ \therefore r &= 6 \end{aligned}$$

$$\begin{aligned} A &= \pi \cdot r^2 \\ &= \pi \cdot 6^2 \\ &= 36\pi \\ &\approx 113.1 \text{ cm}^2 \end{aligned}$$

⑤ Converse
inverse
contrapositive

⑧



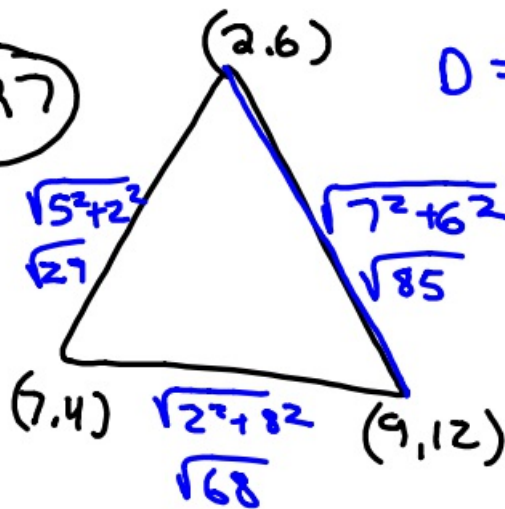
$$C = \pi \cdot 11 \approx 34.6 \text{ cm}$$

$$A = \pi \cdot 5.5^2 \approx 95 \text{ cm}^2$$

Geo

6th 9/20/18

(27)



$$D = \sqrt{\Delta x^2 + \Delta y^2}$$

$$\text{Perimeter} = \sqrt{85} + \sqrt{68} + \sqrt{29}$$

(26) Area is 380.13 cm^2

Circumference = ?

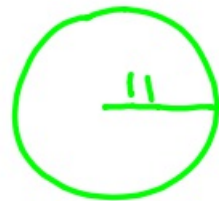
$$A = \pi r^2$$

↓

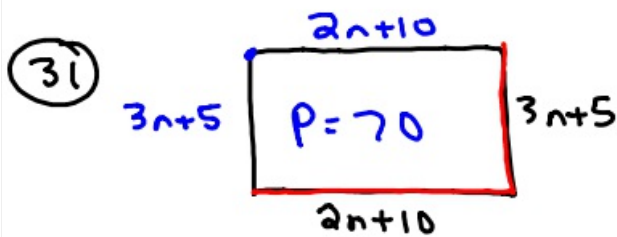
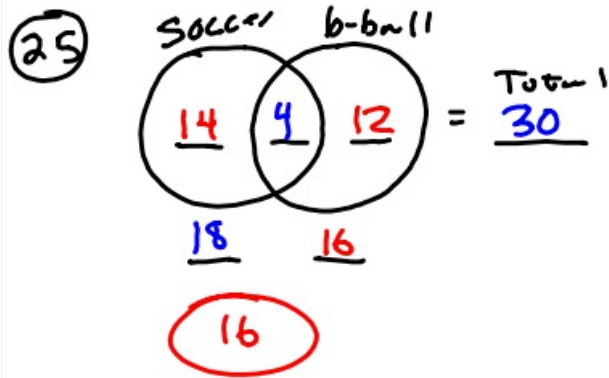
$$\frac{380.13}{\pi} = \frac{\pi \cdot r^2}{\pi}$$

$$\sqrt{r^2} \approx \sqrt{121}$$

$$r = 11$$



$$\begin{aligned} C &= \pi \cdot d \\ &= \pi \cdot 22 \\ &\approx 69.1 \text{ cm} \end{aligned}$$



$$3n+5 + 2n+10 + 3n+5 + 2n+10 = 70$$

$$10n + 30 = 70$$

$$\begin{array}{r} -30 \quad -30 \\ \hline 10n = 40 \\ n = 4 \end{array}$$

New problems

① Converse, Inverse, Contrapositive

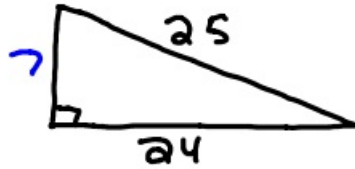
② If $\angle 1 = 30^\circ$ and $\angle 1 + \angle 3 = 50^\circ$,
then $30^\circ + \angle 3 = 50^\circ$

Substitution

③ If $\angle 2 = \angle 5$ and $\angle 5 = 10^\circ$, then
 $\angle 2 = 10^\circ$

④ According to substitution prop,
if $\angle 1 = \angle 3$ and
 $\angle 5 = \angle 1 + \angle 7$, then
 $\angle 5 = \angle 3 + \angle 7$

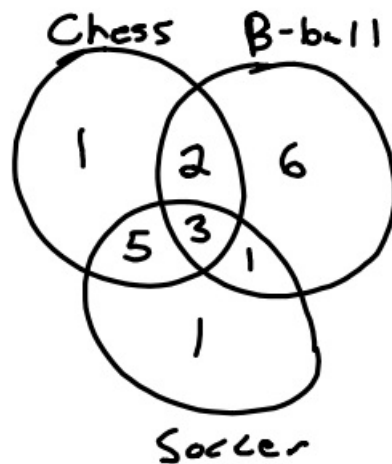
⑤ What is perimeter of



$$\begin{aligned} a^2 + b^2 &= c^2 \\ a^2 + 24^2 &= 25^2 \\ a^2 + 576 &= 625 \\ - 576 & \quad - 576 \\ \hline a^2 &= 49 \\ a &= 7 \end{aligned}$$

$$P = 7 + 24 + 25 = 56 \text{ cm}$$

⑥ ORAL



⑦ Contrapositive of

"if you are not nice, I will punch you."

If I don't punch you, then you are nice.

⑧ If circumference of circle is 8π , what is the area?

$$C = \pi \cdot d$$

$C = 8\pi$ so what is the diameter?

$$\begin{aligned} A &= \pi \cdot r^2 \\ &= \pi \cdot 4^2 \\ &= 16\pi \\ &\approx 50.3 \text{ cm}^2 \end{aligned}$$

⑨ p : you aren't young
 q : you have a job
 r : you like gum

$$\sim r \rightarrow (\sim p \wedge q)$$

If you don't like gum, then you are young and you have a job.