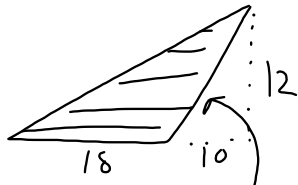
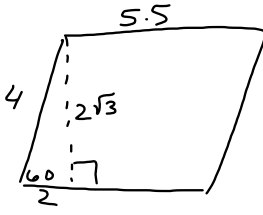


11.1 Area of Parallelograms = bh
 Area of Triangles = 1/2bh

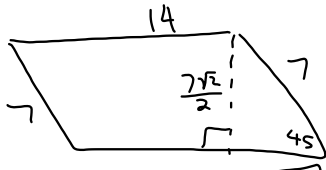
Apr 1-7:35 AM

P 139
 ① 
 $P = 18 + 30.5 + 15.6$
 $A = \frac{1}{2} \cdot 18 \cdot 12$
 $A = 108 \text{ mm}^2$
 $\sqrt{10^2 + 12^2} = 15.6$
 $\sqrt{12^2 + 28^2} = 30.5$

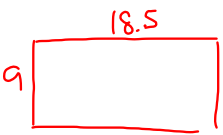
Apr 1-10:30 AM

② 
 $\sin 60 = \frac{x}{4}$
 $4 \sin 60$
 $A = (5.5)(4 \sin 60)$
 $A = 19.1 \text{ ft}^2$
 $P = 4 + 5.5 + 4 + 5.5 = 19 \text{ ft}$
 $A = (5.5)(2\sqrt{3})$
 $A = 19.1 \text{ ft}^2$

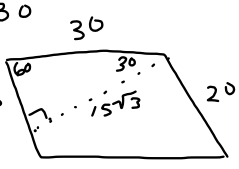
Apr 1-10:32 AM

③ 
 $\sin 45 = \frac{x}{7}$
 $7 \sin 45 = x$
 $P = 7 + 14 + 7 + 14 = 42 \text{ yd}$
 $A = (3.5\sqrt{2})(14) = 69.3 \text{ yd}^2$
 $A = (7 \sin 45)(14)$
 $A = 69.3 \text{ yd}^2$

Apr 1-8:42 AM

6 
 $P = 18.5 + 18.5 + 9 + 9$
 $A = 9 \cdot 18.5$

Apr 1-8:42 AM

① $\sin 60 = \frac{x}{30}$
 $30 \sin 60 =$ 
 $P = 30 + 20 + 30 + 20 = 100 \text{ cm}$
 $A = \frac{bb}{15\sqrt{3}} \cdot 20$
 $A = 19.6 \text{ cm}^2$
 $15\sqrt{3} \cdot 20$

Apr 1-7:48 AM

7

$P = 30 + 20 + 30 + 20 = 100 \text{ cm}$
 $A = (20)(15\sqrt{3})$
 519.6 cm^2

Apr 1-10:40 AM

8

$\sqrt{17^2 + 17^2} = 24$
 $P = 17 + 17 + 24$
 58 in
 $A = \frac{1}{2}(17)(17)$
 144.5 in^2

Apr 1-7:53 AM

9

$1200 = A$
 $A = bh$
 $1200 = b(b+10)$
 $1200 = b^2 + 10b$
 $b^2 + 10b - 1200 = 0$
 $(b+40)(b-30) = 0$
 ~~$b = -40$~~ , $30 = \text{base}$
 $40 = \text{height}$

Apr 1-7:55 AM

10

$A = 1200$
 $A = bh$
 $1200 = b(10+b)$
 $1200 = 10b + b^2$
 $b^2 + 10b - 1200 = 0$
 $(b+40)(b-30) = 0$
 ~~$b = -40$~~ , 30
 $h = \frac{b+10}{30+10} = 40$

Apr 1-10:43 AM

11

$A = 196$
 $A = \frac{1}{2} \cdot b \cdot h$
 $196 = \frac{1}{2} \cdot \frac{1}{2} h \cdot h$
 $196 = \frac{1}{4} h^2$
 $(4) 196 = \frac{1}{4} h^2 (4)$
 $784 = h^2$
 $\sqrt{784} = \sqrt{h^2}$
 $28 = h$
 $\frac{1}{2} h = b$
 $14 = b$

Apr 1-10:46 AM

12

$A = 196$
 $A = \frac{1}{2} bh$
 $A = \frac{1}{2} \cdot \frac{1}{2} h \cdot h$
 $A = \frac{1}{4} h^2$
 $(4) 196 = \frac{1}{4} h^2 (4)$
 $\sqrt{784} = \sqrt{h^2}$
 $28 = h$

Apr 1-7:58 AM

①

$P = 5 + 11 + 5 + 11$
 $A = bh$
 $2.5\sqrt{3} \cdot 11$
 $2.5\sqrt{(3)} \cdot 11$
 47.6 m^2

$\sin 60 = \frac{x}{5}$
 $5 \sin 60 = x$
 4.3×11
 47.6 m^2

Apr 1-8:49 AM

②

$\sin 45 = \frac{x}{8}$
 $8 \sin 45 = x$

$P = 10 + 10 + 8 + 8 = 36 \text{ cm}$
 $A = Bh$
 $10(4\sqrt{2}) = 56.6 \text{ cm}^2$

Apr 1-8:07 AM

③

$P = 10 + 5\sqrt{2} + 10 + 5\sqrt{2}$
 $A = (5\sqrt{2})(5\sqrt{2})$
 50

Apr 1-8:53 AM

④

$A = \frac{1}{2}bh$
 $A = \frac{1}{2} \cdot 25 \cdot 17$
 212.5 cm^2

$17^2 + 15^2$
 22.7
 $40 + 25 + 22.7 = 87.7 \text{ cm}$

Apr 1-8:09 AM

⑤

$A = \frac{1}{2}bh$
 $\frac{1}{2} \cdot 8 \cdot 4$
 16 ft^2
 12.8

$P = 4 + 10 + 12.8 = 26.8 \text{ ft}$

Apr 1-8:13 AM

⑤

$A = \frac{1}{2}bh$
 $A = \frac{1}{2} \cdot 12 \cdot 20$
 $A = 120$

$P = \text{need to find hypotenuse}$
 $\sqrt{12^2 + 20^2} = 23.3$
 $P = 23.3 + 20 + 12 = 55.3$

Apr 1-10:54 AM

$A=204$

$A = bh$
 $204 = b(b+5)$
 $204 = b^2 + 5b$
 $b^2 + 5b - 204 = 0$
 $(b-12)(b+17)$
 $b = 12$ $b = 17$

base = 12
 height = 17

Apr 1-8:14 AM

Area = 204

$204 = b(b+5)$
 $204 = 5b + b^2$
 $b^2 + 5b - 204 = 0$
 $(b-12)(b+17) = 0$
 $b = 12$ $b = -17$
 ~~$b = -17$~~
 $h = 12 + 5$
 $h = 17$

-204
 $\begin{array}{r} 102 \\ 2 \overline{) 204} \\ \underline{204} \\ 0 \end{array}$
 $\begin{array}{r} 17 \\ 3 \overline{) 51} \\ \underline{51} \\ 0 \end{array}$
 $-12 \quad 17$

Apr 1-10:56 AM

$A = 972$

$A = bh$
 $972 = b(3b)$
 $972 = \frac{3b^2}{3}$
 $324 = b^2$
 $\sqrt{324} = \sqrt{b^2}$
 $18 = b$
 $3b = h$
 $3(18) = h$
 $54 = h$

Apr 1-10:59 AM

$A = 242$

$A = \frac{1}{2}bh$
 $242 = \frac{1}{2} \cdot 4h \cdot h$
 $242 = \frac{4h^2}{2}$
 $121 = h^2$
 $11 = h$
 $44 = b$

Apr 1-11:01 AM

⑩

a $42 \times 26 = 1092$ poster
 b $43 \times 27 = 1161$ (border $1161 - 1092 = 69$)
 c $(43+24)(27+24)$
 $\begin{array}{r} 67 \\ \times 51 \\ \hline 3417 \end{array}$

Apr 1-11:03 AM

$A = 972$

$A = bh$
 $972 = b(3b)$
 $972 = \frac{3b^2}{3}$
 $\sqrt{324} = \sqrt{b^2}$
 $18 = \text{base}$
 $54 = \text{height}$

Apr 1-8:18 AM

$972 = bh$
 $972 = b(3b)$
 $972 = 3b^2$
 $324 = b^2$

Apr 1-8:58 AM

$A = 242$
 $A = \frac{1}{2}bh$
 $242 = \frac{1}{2} \cdot 4h \cdot h$
 $\frac{242}{2} = \frac{2h^2}{2}$
 $121 = h^2$
 $11 = h$
 $44 = b$

Apr 1-8:19 AM

$A = 242$ $A = \frac{1}{2}bh$
 $242 = \frac{1}{2} \cdot 4h \cdot h$
 $242 = 2h^2$
 $121 = h^2$
 $11 = h$
 $44 = b$

Apr 1-9:00 AM

P140
③

$P = 5\sqrt{2} + 5\sqrt{2} + 10 + 10 = 34.1 \text{ in}$
 $A = (5\sqrt{2})(5\sqrt{2}) = 50 \text{ in}^2$

Apr 1-8:04 AM

11.2 Trapezoids, Rhombi and Kites

Area of Trapezoid = $\frac{1}{2}h(b_1 + b_2) = \frac{h(b_1 + b_2)}{2}$

Area of Rhombi and Kites = $\frac{1}{2}d_1d_2$

$\frac{1}{2}h(b_1 + b_2)$
 $\frac{1}{2} \cdot 16 \cdot 50$
 400 units²

Area =

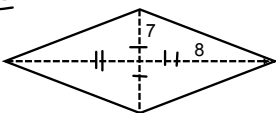
Apr 1-7:15 AM

Area = 504

$\frac{1}{2}h(b_1 + b_2)$
 $\frac{1}{2} \cdot 28(12 + 24)$

Apr 1-7:23 AM

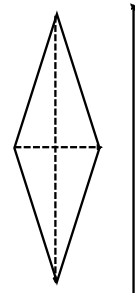
Area = 112 Units Sq

$$\frac{d_1 d_2}{2}$$


$$\frac{14 \times 16}{2}$$

Apr 1-7:25 AM

Area = 108 units sq



$$\frac{1}{2} \cdot 12 \cdot 18$$

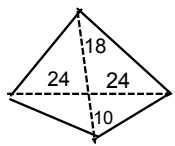
$$\rightarrow 6 \cdot 18$$

$$\rightarrow 12 \cdot 9$$

$$\rightarrow \frac{12 \cdot 18}{2}$$

Apr 1-7:26 AM

Area = 672 Units Squared

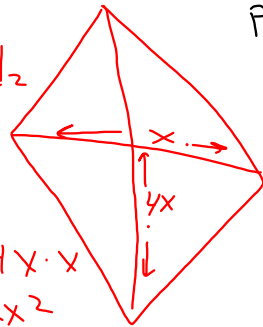


$$\frac{1}{2} \cdot 48 \cdot 28$$

Apr 1-7:29 AM

A = 72

A = $\frac{1}{2} d_1 d_2$



P 141

#8

$$72 = \frac{1}{2} \cdot 4x \cdot 4x$$

$$72 = 2x^2$$

$$36 = x^2$$

$$6 = x$$

$$d_1 d_2 = 24$$

Apr 1-7:32 AM