

Area of Parallelograms

A. $A = bh$
 $A = 10 \cdot 4$
 $A = 40$

B. $A = bh$
 $A = 12 \cdot 15$
 $A = 180$

C. $A = bh$
 $A = 3 \cdot 8$
 $A = 24$

D. $A = bh$
 $A = 24 \cdot 10$
 $A = 240$

E. $A = bh$
 $A = 7 \cdot 4$
 $A = 28$

F. $A = bh$
 $A = 4 \cdot 2 \cdot 6$
 $A = 10 \cdot 4$

G. $A = bh$
 $A = 12 \cdot 12 \cdot 2$
 $A = 146 \cdot 4$

H. $A = bh$
 $A = 11 \cdot 6 \cdot 7$
 $A = 73 \cdot 7$

I. $A = bh$
 $A = 6 \cdot 8 \cdot 6$
 $A = 51 \cdot 6$

J. $A = bh$
 $A = 10 \cdot 4$
 $A = 40$

Review: Area of Trapezoids

$$I \quad \Delta_1 + \Delta_2$$

$$\begin{aligned}\Delta_1 &= \frac{1}{2}(9.2)3 \\ &= \frac{1}{2}(27.6) \\ &= 13.8 \text{ ft}^2\end{aligned}$$

$$\begin{aligned}\Delta_2 &= \frac{1}{2}(10.8)3 \\ &= \frac{1}{2}(32.4) \\ &= 16.2 \text{ ft}^2\end{aligned}$$

$$13.8 + 16.2 = 30 \text{ ft}^2$$

$$J. \quad \Delta_1 + \Delta_2$$

$$\begin{aligned}\Delta_1 &= \frac{1}{2}(3.7)5.6 \\ &= \frac{1}{2}(20.72) \\ &= 10.36 \text{ km}^2\end{aligned}$$

$$\begin{aligned}\Delta_2 &= \frac{1}{2}(12)5.6 \\ &= 6 \cdot 5.6 \\ &= 33.6 \text{ km}^2\end{aligned}$$

$$10.36 + 33.6 = 43.96 \text{ km}^2$$

Review: Area of Trapezoids

E. $A = \Delta 1 + \Delta 2$

$\Delta 1 = \frac{1}{2}(6)5$

$= 3 \cdot 5$

$= 15 \text{ dm}^2$

$= 10 \text{ dm}^2$

$= 2 \cdot 5$

$\Delta 2 = \frac{1}{2}(4)5$

$15 + 10 = 25 \text{ dm}^2$

F. $\Delta 1 + \Delta 2$

$\Delta 1 = \frac{1}{2}(13)11$

$= \frac{1}{2}(143)$

$= 71.5 \text{ cm}^2$

$= 8(11)$

$= 88 \text{ cm}^2$

$71.5 + 88 = 159.5 \text{ cm}^2$

$\Delta 2 = \frac{1}{2}(16)11$

G. $\Delta 1 + \Delta 2$

$\Delta 1 = \frac{1}{2}(20)4$

$= \frac{1}{2}(80)4$

$= 16 \cdot 4$

$= 40 \text{ m}^2$

$\Delta 2 = \frac{1}{2}(16.5)4$

$= 2 \cdot 16.5$

$= 33 \text{ m}^2$

$40 + 33 = 73 \text{ m}^2$

H. $\Delta 1 + \Delta 2$

$\Delta 1 = \frac{1}{2}(6)7.5$

$= 3 \cdot 7.5$

$= 22.5 \text{ yd}^2$

$\Delta 2 = \frac{1}{2}(2.4)7.5$

$= 1 \cdot 2(7.5)$

$= 9 \text{ yd}^2$

$22.5 + 9 = 31.5 \text{ yd}^2$

Review: Area of Trapezoids

A. $A = \Delta 1 + \Delta 2$

$$\Delta 1 = \frac{1}{2}(10) \cdot 4 \quad \Delta 2 = \frac{1}{2}(7)(4)$$

$$= 5 \cdot 4$$

$$= 7 \cdot 2$$

$$= 20 \text{ in}^2$$

$$= 14 \text{ in}^2$$

$$20 + 14 = \boxed{34 \text{ in}^2}$$

B. $A = \Delta 1 + \Delta 2$

$$\Delta 1 = \frac{1}{2}(5)(2.5)$$

$$\Delta 2 = \frac{1}{2}(7)(2.5)$$

$$= \frac{1}{2}(12.5)$$

$$= \frac{1}{2}(17.5)$$

$$= 6.25 \text{ yd}^2$$

$$= 8.75 \text{ yd}^2$$

$$6.25 + 8.75 = \boxed{15 \text{ yd}^2}$$

C. $A = \Delta 1 + \Delta 2$

$$\Delta 1 = \frac{1}{2}(10)7.2$$

$$\Delta 2 = \frac{1}{2}(6)7.2$$

$$= 5 \cdot 7.2$$

$$= 3 \cdot 7.2$$

$$= 36 \text{ cm}^2$$

$$= 21.6 \text{ cm}^2$$

$$36 + 21.6 = \boxed{57.6 \text{ cm}^2}$$

D. $A = \Delta 1 + \Delta 2$

$$\Delta 1 = \frac{1}{2}(8)5$$

$$\Delta 2 = \frac{1}{2}(3.5)5$$

$$= 4 \cdot 5$$

$$= \frac{1}{2}(17.5)$$

$$= 20 \text{ mm}^2$$

$$= 8.75 \text{ mm}^2$$

$$20 + 8.75 = \boxed{28.75 \text{ mm}^2}$$

Review: Area of Δ 's

$$A = \frac{1}{2}bh = \frac{1}{2}(22)(10)$$

$$= 11 \cdot 10$$

$$= 110 \text{ mm}^2$$

$$= \frac{1}{2}(22)$$

$$= \frac{1}{2}(22)(10)$$

$$= \frac{1}{2}(bh)$$

$$= 110 \text{ mm}^2$$

g.

$$A = \frac{1}{2}bh = \frac{1}{2}(18)(12)$$

$$= 9 \cdot 12$$

$$= 113.4 \text{ cm}^2$$

$$= \frac{1}{2}bh = \frac{1}{2}(18)(12)$$

$$= \frac{1}{2}(22)(8)$$

$$= 113.4 \text{ cm}^2$$

$$= \frac{1}{2}bh$$

h.

$$A = \frac{1}{2}bh$$

$$= \frac{1}{2}(14)(16)$$

$$= \frac{1}{2}(1024)$$

$$= 512 \text{ ft}^2$$

$$= \frac{1}{2}bh$$

$$= \frac{1}{2}(14)(16)$$

$$= 64 \cdot 8$$

$$= 512 \text{ ft}^2$$

i.

$$A = \frac{1}{2}bh$$

$$= \frac{1}{2}(4.8)(6.2)$$

$$= \frac{1}{2}(29.76)$$

$$= 14.88 \text{ cm}^2$$

$$= \frac{1}{2}bh$$

$$= \frac{1}{2}(4.8)(6.2)$$

$$= 24 \cdot 6.2$$

$$= 14.88 \text{ cm}^2$$

j.

Review: Area of Δ 's

A.

$$A = \frac{1}{2}bh = 10 \cdot 48 = 480 \text{ ft}^2$$

$$A = \frac{1}{2}bh = \frac{1}{2}(48)(20) = 480 \text{ ft}^2$$

B.

$$A = \frac{1}{2}(20)(30) = 10 \cdot 30 = 300 \text{ in}^2$$

$$A = \frac{1}{2}(20)(30) = \frac{1}{2}720 = 360 \text{ in}^2$$

C.

$$A = \frac{1}{2}bh = \frac{1}{2}(42)(32) = 21(32) = 672 \text{ cm}^2$$

$$A = \frac{1}{2}bh = \frac{1}{2}(42)(32) = \frac{1}{2}(1344) = 672 \text{ cm}^2$$

D.

$$A = \frac{1}{2}bh = \frac{1}{2}(1.5)(3) = (4.5)\frac{1}{2} = 2.25 \text{ in}^2$$

$$E. A = \frac{1}{2}bh = \frac{1}{2}(2.6)(11) = 14.3 \text{ m}^2$$

$$F. A = \frac{1}{2}bh = \frac{1}{2}(2.8)(14) = 19.6 \text{ cm}^2$$

F.

$$A = \frac{1}{2}bh = \frac{1}{2}(28)(14) = 224 \text{ cm}^2$$

$$A = \frac{1}{2}bh = \frac{1}{2}(28)(14) = 224 \text{ cm}^2$$