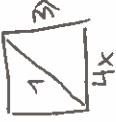


# Answer Key

## Ratios in the Media Practice

Aspect Ratio	TV Size	Width	Height	Screen Area
4:3 	7 in.	$(4x)^2 + (3x)^2 = 7^2$ $25x^2 = 49$ $x^2 = 1.96$ $x = 1.4$ $W = 4(1.4) = 5.6$ in.	$H = 3(1.4) = 4.2$ in	$A = WH$ $A = (5.6 \text{ in})(4.2 \text{ in})$ $A = 23.52 \text{ in}^2$
4:3	10 in.	8 in.	6 in.	$48 \text{ in}^2$
4:3	15 in.	12 in.	9 in.	$108 \text{ in}^2$
4:3	19 in.	15.2 in.	11.4 in.	$173.3 \text{ in}^2$

Aspect Ratio	TV Size	Width	Height	Screen Area
16:9	24 in.	20.8 in.	11.7 in.	$243.4 \text{ in}^2$
16:9	26 in.	22.4 in.	12.6 in.	$282.2 \text{ in}^2$
16:9	32 in.	27.2 in.	15.3 in.	$416.2 \text{ in}^2$
16:9	52 in.	$(16x)^2 + (9x)^2 = 52^2$ $337x^2 = 2704$ $x^2 \approx 8$ $x \approx 2.8$ $W = 16(2.8) = 44.8 \text{ in}$	$H = 9(2.8) = 25.2 \text{ in}$	$A = WH$ $A = (44.8 \text{ in})(25.2 \text{ in})$ $A \approx 1,129 \text{ in}^2$

