AW 10 3.2 Name KEY

Imperial to Metric Conversions

1) Convert 7 inches into cm.

$7\text{ in} \times \frac{2.54\text{ cm}}{1\text{ in}} = \boxed{17.78\text{ cm}}$

2) Convert 14 feet into metres.

$14\text{ ft} \times \frac{.3048\text{ m}}{1\text{ ft}} = \boxed{4.27\text{ m}}$

3) Convert 6 yards into metres.

$6\text{ y} \times \frac{.9144\text{ m}}{1\text{ y}} = \boxed{5.49\text{ m}}$

4) Convert 8 miles into kilometres.

$8\text{ mi} \times \frac{1.609\text{ km}}{1\text{ mi}} = \boxed{12.87\text{ km}}$

5) Convert 9.2 miles into metres.

$9.2\text{ mi} \times \frac{1760\text{ y}}{1\text{ mi}} \times \frac{.9144\text{ m}}{1\text{ y}} = \boxed{14805.9\text{ m}}$

6) Convert 7000 yards into kilometres.

$7000\text{ y} \times \frac{1\text{ mi}}{1760\text{ y}} \times \frac{1.609\text{ km}}{1\text{ mi}} = \boxed{6.40\text{ km}}$

7) Convert 500 inches into metres.

$500\text{ in} \times \frac{1\text{ y}}{36\text{ in}} \times \frac{.9144\text{ m}}{1\text{ y}} = \boxed{12.7\text{ m}}$

8) Convert 75 feet into centimetres.

$75\text{ ft} \times \frac{30.48\text{ cm}}{1\text{ ft}} = \boxed{2286\text{ cm}}$

9) Convert 5 yards into millimetres.

$5\text{ y} \times \frac{91.44\text{ cm}}{1\text{ y}} \times 10 = \boxed{4572\text{ mm}}$

10) Convert 2 metres into feet.

$2\text{ m} \times \frac{1\text{ ft}}{.3048\text{ m}} = \boxed{6.46\text{ ft}}$

11) Convert 24 centmetres into inches.

$24\text{ cm} \times \frac{1\text{ in}}{2.54\text{ cm}} = \boxed{9.45\text{ in}}$

12) Convert 9 kilometres into miles.

$9\text{ km} \times \frac{1\text{ mi}}{1.609\text{ km}} = \boxed{5.6\text{ m}}$

13) Convert 29 metres into yards.

$29\text{ m} \times \frac{1\text{ y}}{.9144\text{ m}} = \boxed{31.71\text{ y}}$

14) Convert 290 inches into metres.

$290\text{ in} \times \frac{1\text{ y}}{36\text{ in}} \times \frac{.9144\text{ m}}{1\text{ y}} = \boxed{7.37\text{ m}}$

15) Convert 75 metres into inches.

$75\text{ m} \times \frac{1\text{ y}}{.9144\text{ m}} \times \frac{36\text{ in}}{1\text{ y}} = \boxed{2952.76\text{ in}}$

16) Convert 10.4 kilometres into feet.

$10.4\text{ km} \times \frac{1000\text{ m}}{1\text{ km}} \times \frac{1\text{ ft}}{.3048\text{ m}} = \boxed{34120.73\text{ ft}}$

17) Jimmy is driving 120km/h in the U.S. The speed limit is 70m/h. Is he speeding? How much above or below the limit is he?

$120\text{km} \times \frac{1\text{ m}}{1609\text{km}} = 74.6\text{mph}$

YES. 4.6 OVER

18) Jenny is 5' tall. She needs to be at least 160cm tall to go on a ride. Is she tall enough? By how much?

$160\text{cm} \times \frac{1\text{ ft}}{30.48\text{cm}} = 5.25\text{ ft}$

NO, By .25ft (3in)

19) Billy needs 5 yards of fabric. He has 4.5 metres. Does he have enough? By how much?

$5\text{y} \times \frac{.9144\text{ m}}{1\text{ y}} = 4.57\text{m}$

NO. By .07m

20) A Canadian Football field is 110 yards long. Henry is training for the 100m sprint. Is a football field long enough? By how much?

$110\text{y} \times \frac{.9144\text{ m}}{1\text{ y}} = 100.58\text{m}$

YES. By 0.58m

21) Mark is buying some PVC pipe. It costs $2.89 per foot. He needs 8 metres. How much will it cost?

$8\text{m} \times \frac{1\text{ y}}{.9144\text{ m}} \times \frac{3\text{ ft}}{1\text{ y}}$

$= 26.25\text{ ft}$

$\times 2.89$

$75.85

DOES NOT SAY "BY THE foot only". WHOLE

OTHERWISE $78.03

22) Karen is buying wallpaper. It costs $8.79 per metre. She needs 120 feet. How much will it cost?

$120\text{ft} \times \frac{1\text{ m}}{.3048\text{ft}}$

$= 393.7\text{m}$

$\times \quad 8.79$

$3460.63

UNLESS it's by THE fullmeter, IN WHICH CASE $3516.

BUT REALLY, IT'S SOLD BY THE ROLL...

