

## Imperial Units

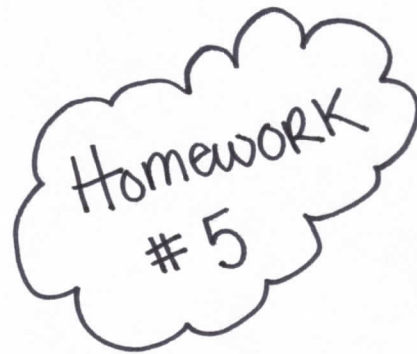
$1 \text{ ft} = \underline{\quad} \text{ in}$

$1 \text{ yd} = \underline{\quad} \text{ in}$

$1 \text{ yd} = \underline{\quad} \text{ ft}$

$1 \text{ mi} = \underline{\quad} \text{ yd}$

$1 \text{ mi} = \underline{\quad} \text{ ft}$



Express each measurement in inches. SHOW ALL WORK.

① 5 ft

8 ft

②

③ 6 yd

9.5 yd

④

⑤ 5 ft 3 in

4 ft 10 in

⑥

⑦ 3 yd 2 ft

5 yd 1 ft 7 in

⑧

⑨ 3 ft 8 in

5 ft  $8\frac{1}{2}$  in

⑩

CONVERT TO FEET. SHOW ALL WORK.

(11.) 66 in

(12.) 80 in

(13.) 4 yd

(14.) 10 yd 2 ft

(15.) 9 yd 1 ft

(16.)  $\frac{1}{2}$  yd

(17.) 5 mi

(18.) 6 mi 800 yd

(19.) 8 mi 750 yd 2 ft

(20.)  $2\frac{3}{4}$  mi

(21.) 50 yd 10 ft

(22.)  $\frac{3}{4}$  mi

## Imperial Units

$$1 \text{ ft} = \underline{12} \text{ in}$$

$$1 \text{ yd} = \underline{36} \text{ in}$$

$$1 \text{ yd} = \underline{3} \text{ ft}$$

$$1 \text{ mi} = \underline{1760} \text{ yd}$$

$$1 \text{ mi} = \underline{5280} \text{ ft}$$

Homework  
#5

Express each measurement in inches. SHOW ALL WORK.

$$1) \quad 5 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}} = \boxed{60 \text{ in}}$$

$$2) \quad 8 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}} = \boxed{96 \text{ in}}$$

$$3) \quad 6 \text{ yd} \times \frac{36 \text{ in}}{\text{yd}} = \boxed{216 \text{ in}}$$

$$4) \quad 9.5 \text{ yd} \times \frac{36 \text{ in}}{\text{yd}} = \boxed{342 \text{ in}}$$

$$5) \quad 5 \text{ ft } 3 \text{ in}$$

$$= 5 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}} + 3 \text{ in} = 60 + 3$$

$$= \boxed{63 \text{ in}}$$

$$6) \quad 4 \text{ ft } 10 \text{ in}$$

$$= 4 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}} + 10 \text{ in}$$

$$= 48 + 10 = \boxed{58 \text{ in}}$$

$$7) \quad 3 \text{ yd } 2 \text{ ft}$$

$$= 3 \text{ yd} \times \frac{36 \text{ in}}{\text{yd}} + 2 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}}$$

$$= 108 + 24 = \boxed{132 \text{ in}}$$

$$8) \quad 5 \text{ yd } 1 \text{ ft } 7 \text{ in}$$

$$= 5 \text{ yd} \times \frac{36 \text{ in}}{\text{yd}} + 12 \text{ in} + 7 \text{ in}$$

$$= 180 + 19 = \boxed{199 \text{ in}}$$

$$9) \quad 3 \text{ ft } 8 \text{ in}$$

$$= 3 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}} + 8$$

$$= 36 + 8 = \boxed{44 \text{ in}}$$

$$10) \quad 5 \text{ ft } 8 \frac{1}{2} \text{ in}$$

$$= 5 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}} + 8 \frac{1}{2}$$

$$= 60 + 8 \frac{1}{2} = \boxed{68 \frac{1}{2}}$$

CONVERT TO FEET. SHOW ALL WORK.

$$1) 66 \text{ in} \times \frac{1 \text{ ft}}{12} = 5.5$$

$$.5 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}} = 6 \text{ in}$$

$$\boxed{5 \text{ ft } 6 \text{ in}}$$

$$12) 80 \text{ in} \times \frac{1 \text{ ft}}{12} = 6.7 \text{ ft}$$

$$.7 \text{ ft} \times \frac{12 \text{ in}}{\text{ft}} = 8.4 \text{ in}$$

$$= 6 \text{ ft } 8 \text{ in}$$

$$3) 4 \text{ yd} \times \frac{3 \text{ ft}}{\text{yd}} = \boxed{12 \text{ ft}}$$

$$14) 10 \text{ yd } 2 \text{ ft}$$

$$10 \times \frac{3 \text{ ft}}{\text{yd}} + 2$$

$$= 30 + 2 = \boxed{32 \text{ ft}}$$

$$5) 9 \text{ yd } 1 \text{ ft}$$

$$9 \times \frac{3 \text{ ft}}{\text{yd}} + 1$$

$$= 27 + 1 = \boxed{28 \text{ ft}}$$

$$16) \frac{1}{2} \text{ yd}$$

$$.5 \times \frac{3 \text{ ft}}{\text{yd}} = 1.5 \text{ ft}$$

$$= \boxed{1 \text{ ft } 6 \text{ in}}$$

$$7) 5 \text{ mi}$$

$$5 \text{ mi} \times \frac{5280 \text{ ft}}{\text{mi}}$$

$$= \boxed{26400 \text{ ft}}$$

$$18) 6 \text{ mi } 800 \text{ yd}$$

$$6 \text{ mi} \times \frac{5280 \text{ ft}}{\text{mi}} + 800 \text{ yd} \times \frac{3 \text{ ft}}{\text{yd}}$$

$$= 31680 + 2400$$

$$= \boxed{34080 \text{ ft}}$$

$$9) 8 \text{ mi } 750 \text{ yd } 2 \text{ ft}$$

$$8 \text{ mi} \times \frac{5280 \text{ ft}}{\text{mi}} + 750 \text{ yd} \times \frac{3 \text{ ft}}{\text{yd}} + 2$$

$$= 42240 + 2250 + 2$$

$$= \boxed{44492 \text{ ft}}$$

$$20) 2 \frac{3}{4} \text{ mi}$$

$$2.75 \text{ mi} \times \frac{5280 \text{ ft}}{\text{mi}}$$

$$= \boxed{14520 \text{ ft}}$$

$$11) 50 \text{ yd } 10 \text{ ft}$$

$$50 \text{ yd} \times \frac{3 \text{ ft}}{\text{yd}} + 10$$

$$= 150 + 10$$

$$= \boxed{160 \text{ ft}}$$

$$22) \frac{3}{4} \text{ mi}$$

$$.75 \text{ mi} \times \frac{5280 \text{ ft}}{\text{mi}}$$

$$= 3960 \text{ ft}$$