

$$(1) \cdot 9285714 = \cdot 92857142$$

$$\cdot 82142857 = \cdot 82142857$$

$$\cdot 48 = \cdot 48484848$$

$$2\cdot 87 = 2\cdot 87878787$$

$$5\cdot 11363636$$

$$(3) \cdot 163 \times \cdot 06 = \cdot 0099173553 \dots$$

$$(4) 1\cdot 015873 \div 1\cdot 636904761 = 1\frac{15873}{999999} \div 1\frac{636904698}{999999900}$$

$$= \frac{169312}{1015872} \times \frac{111111100}{999999900} = \frac{111111}{999999} \times \frac{1036904598}{272817433} =$$

$$(11) \cdot 00776 \text{ days} = \text{error made each year;}$$

$$\therefore \text{in } \frac{1}{\cdot 00776} \text{ years this error will amount to a day}$$

$$= 128\frac{3}{4} \text{ years.}$$

$$(12) \sqrt[3]{\frac{2}{3}} = \sqrt[3]{\frac{4}{9}}, \sqrt{\frac{1}{3}} = \sqrt[6]{\frac{1}{27}}; \therefore \sqrt[3]{\frac{2}{3}} \text{ is the greater.}$$

XVII. (p. 285.)

$$(1) 10 \text{ men.}$$

$$(2) \frac{21164}{26312}, \frac{18975}{26312}, \frac{21160}{26312}$$

$$\text{difference of 1st two} = \frac{2189}{26312},$$

$$\text{difference of 2d two} = \frac{2185}{26312}$$

$$\text{fraction required} = \frac{2189}{2185}$$

$$(3) 1600 \text{ ounces, } 4840 \text{ s. yds.} \quad (4) 3\cdot 04; 30\cdot 4.$$

$$(5) £9 \text{ } 5\text{s. } 2\frac{3}{4}\text{d.} \quad (6) \$254\cdot 60.$$

$$(7) 4 \text{ women} = 3 \text{ men; } \therefore 2 \text{ women} = 1\frac{1}{2} \text{ men}$$

$$5 \text{ boys} = 3 \text{ men; } \therefore 3 \text{ boys} = 1\frac{1}{2} \text{ men}$$

$$6 \text{ girls} = 3 \text{ men; } \therefore 4 \text{ girls} = 2 \text{ men}$$

$$1 \text{ man} + 2 \text{ women} + 3 \text{ boys} + 4 \text{ girls} = 6\frac{3}{10} \text{ men}$$

$$3 \text{ men do it in } 60 \text{ days}$$

$$1 \text{ " " } 180 \text{ "}$$

$$6\frac{3}{10} \text{ " " } \frac{180}{6\frac{3}{10}} = 28\frac{1}{2} \text{ days.}$$

$$-\$94\cdot 75.$$