

# Review Topic 7 page 2

h) Split evenly so divide  
Chocolate split so  $15\frac{1}{2}$  go of first  $15\frac{1}{2} \div \frac{3}{4} = \frac{31}{2} \div \frac{3}{4} = \frac{31}{2} \times \frac{4}{3} = \frac{62}{3} = 20\frac{2}{3}$

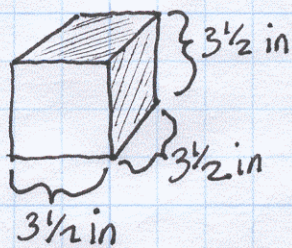
20 full boxes

20 full boxes is  $20 \cdot \frac{3}{4} = \frac{20}{1} \cdot \frac{3}{4} = 15\frac{1}{2}$  so  $15\frac{1}{2} - 15 = \frac{1}{2}$  lb left

i)  $5\frac{3}{4} \div \frac{2}{3} = \frac{23}{4} \div \frac{2}{3} = \frac{23}{4} \times \frac{3}{2} = \frac{69}{8} = 8\frac{5}{8}$  buckets

j)  $2\frac{3}{4} \cdot 10 = \frac{11}{4} \cdot \frac{10}{1} = \frac{55}{2} = 27\frac{1}{2}$  yards  $30 \div 2\frac{3}{4} = \frac{30}{1} \div \frac{11}{4} = \frac{30}{1} \times \frac{4}{11} = \frac{120}{11} = 10\frac{10}{11}$   
10 shirts

k) varies



Volume:  $3\frac{1}{2} \cdot 3\frac{1}{2} \cdot 3\frac{1}{2} = \frac{7}{2} \cdot \frac{7}{2} \cdot \frac{7}{2} = \frac{343}{8}$

$= 42\frac{7}{8}$  cu.in.

Surface area:  $6(3\frac{1}{2})^2 = 6 \cdot 3\frac{1}{2} \cdot 3\frac{1}{2} =$

$\frac{36}{1} \cdot \frac{7}{2} \cdot \frac{7}{2} = \frac{147}{2} = 73\frac{1}{2}$  sq.in

How many?  $367\frac{1}{2}$  sq.in of metal is cut evenly To work the problem we assume no waste.

$367\frac{1}{2} \div 73\frac{1}{2} = \frac{735}{2} \div \frac{147}{2} = \frac{735}{2} \times \frac{2}{147} = \frac{735}{147} = 5$  cubes

none left over.