Name: _____ Class: _____ Date: _____ Points 30

Cumulative Test A — Units 1–11

1. List all the factors of 36.

1, 2, 3, 4, 6, 9, 12, 18, 36

2. Lucy earns $1750 a month. She gives her mother $280 and keeps the rest for herself each month. How much money does she keep for herself in half a year?

$1750 − $280 = $1470

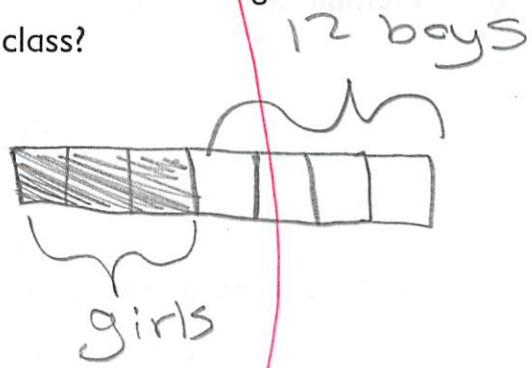
6 months

$1470 × 6 = $8820

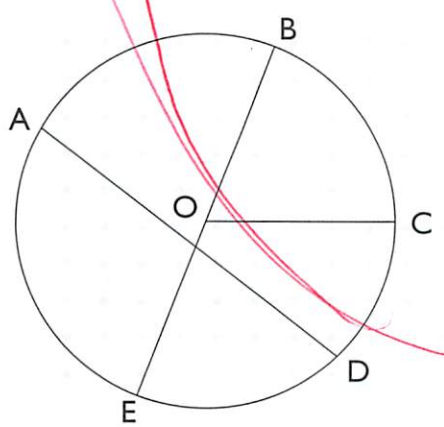
3. $\frac{3}{7}$ of the students in a class are girls. There are 12 boys in the class. How many students are there in the class?

12 ÷ 4 = 3

3 × 7 = 21



4. In the circle below, O is the center.



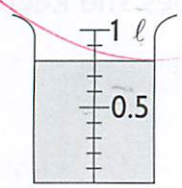
Name a radius of the circle. OC

5. Mr. Kim's garden has an area of 1 square yard. What is its area in square feet?

$3 \times 3 = 9$

6. What is the value of the digit 3 in 187.34? 0.3

7. What is the volume of water in the beaker?



$cm^3 = ml$

800 cm^3

8. Multiply 306.5×9.

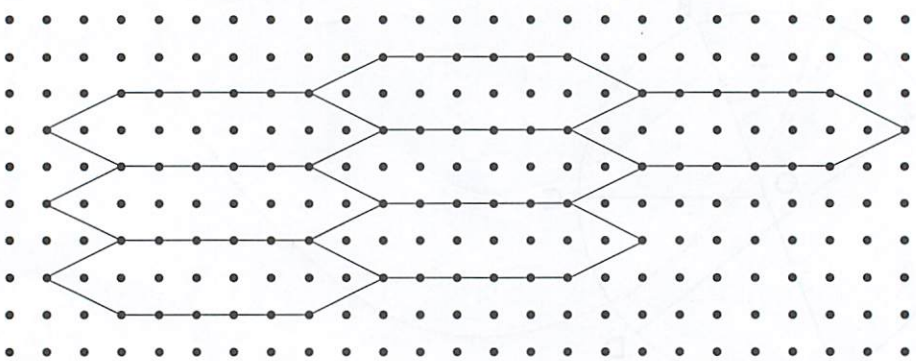
+5 +4

306.5

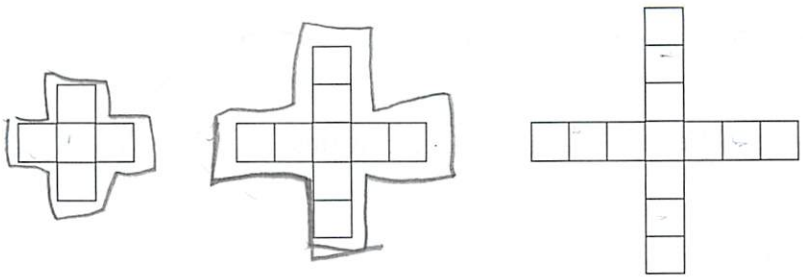
× 9

2758.5

9. Draw 3 more unit shapes in the tessellation.



10.



Pattern 1 Pattern 2 Pattern 3

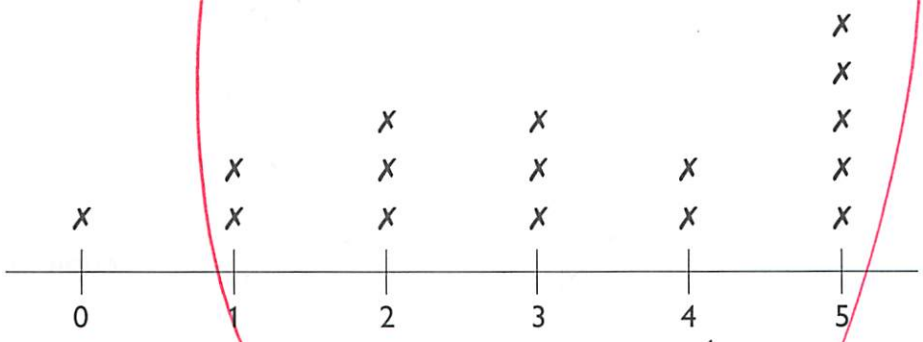
Complete the table.

Pattern	1	2	3	4
Number of squares (n)	5	9	13	17
Number of sides (s)	12	20	28	36

Write an equation to express the relationship between the number of squares, n, and the number of sides, s.

$2n+2=s$

11. Winona surveyed her friends to find out how many storybooks they read last month. The results are shown in the line plot.



(a) How many friends did she survey? 16

(b) What is the median number of books read last month?

3

0, 1, 1, 2, 2, 2, 3, 3, 3, 4, 4, 5, 5, 5, 5, 5

12. (a) 5 lb 3 oz = 83 oz

(b) 3 days 8 hours = 80 hours

(c) 15 yd 3 ft = 48 ft

13. There are 6 bags of sugar, each weighing 1 kg 250 g. What is their total weight?

1 kg 250 g
= 1250 g

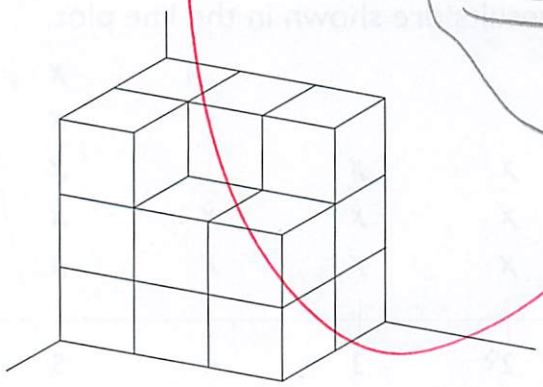
(f1) (f3)
1250 g
× 6
7500 g = 7 kg 500 g

14. Linda had 8 m 40 cm of wire. She cut it equally into 6 pieces. How long was one piece?

8 m 40 cm
= 840 cm

140 cm
6)840
-6
24
-24
00
-0
0

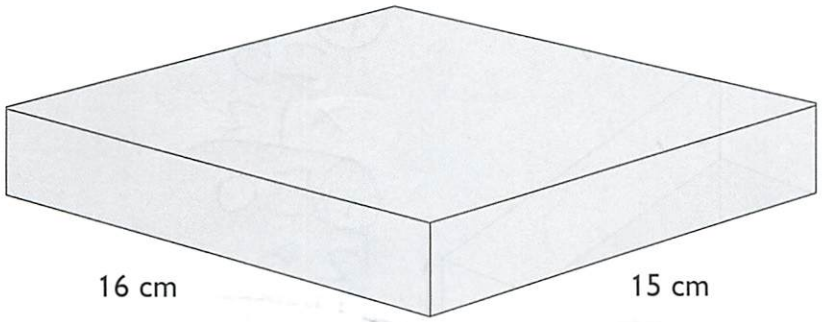
15. What is the volume of the solid?



16 cubic units

(f3) 16
× 5
80 oz

16. Find the volume of the rectangular prism.

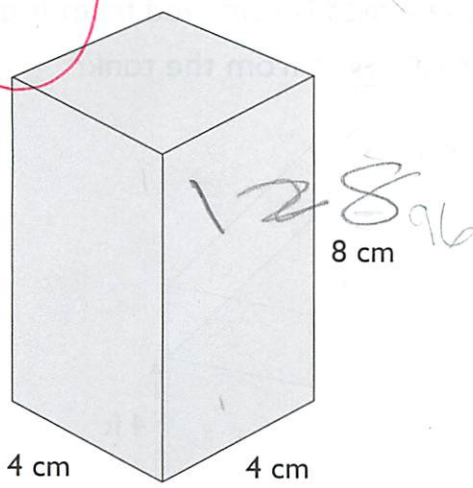


+1
16
× 3
48

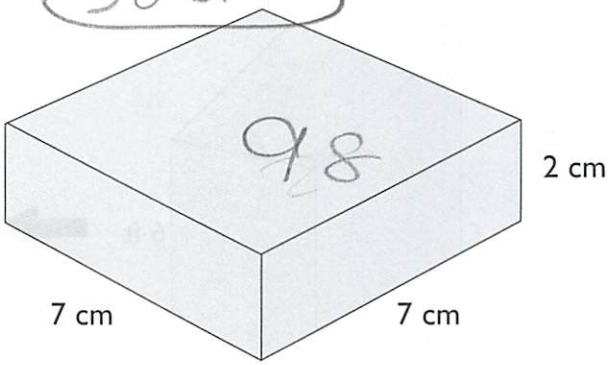
+4
48
× 15
240
+ 48
720 cm

720 cm

17. Find the difference between the volumes of these rectangular prisms.



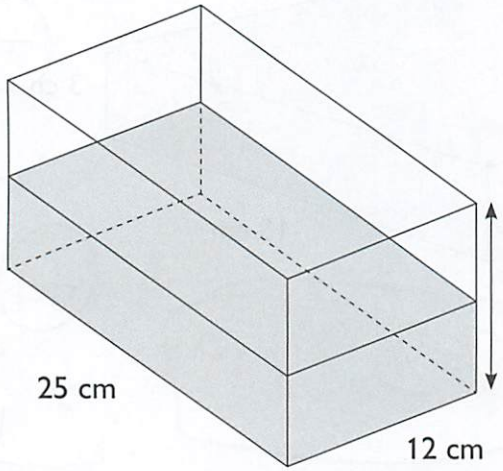
128
96



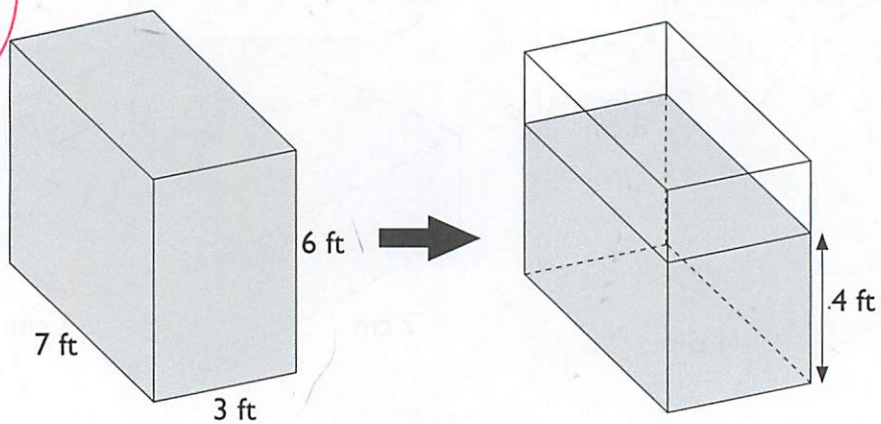
98

128
- 98
30 cm

18. The tank below is half filled. What is the volume of water in the tank?

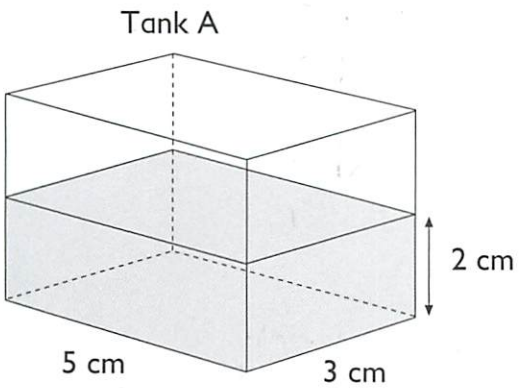


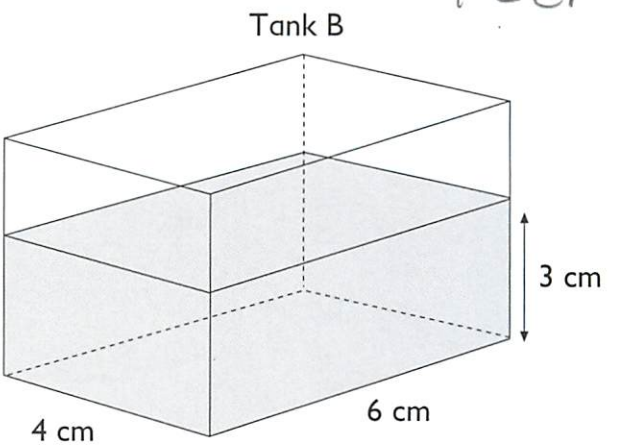
19. A tank is filled to the brim. Then some water is removed from it as shown. What is the volume of water removed from the tank?



20. (a) Two tanks A and B contain water. The water in Tank A is poured into Tank B. What is the volume of water in Tank B now?

72cm





5 x 3 = 15

15 x 2 = 30

72
+ 30
102 cm

(b) The water in Tank B is now poured equally into 3 similar jugs, filling each jug to the brim. What is the capacity of each jug?

$$\begin{array}{r} 24 \\ 3\overline{)72} \\ -6 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$