EXT:

TWOS, FOURS AND EIGHTS

TARGET To connect the 2, 4 and 8 times tables by doubling and halving.

Example 1 30×8
Double 30, double and double again to multiply by 8.
$30 \rightarrow 60 \rightarrow 120 \rightarrow 240$
Answer *240*

Example 2 $1000 \div 8$
Halve 1000, halve and halve again to divide by 8.
$1000 \rightarrow 500 \rightarrow 250 \rightarrow 125$
Answer *125*

A

Double and double again to multiply each number by 4.

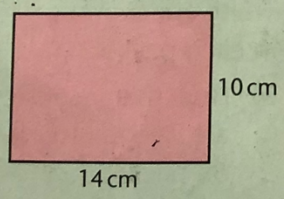
1. 3
2. 40
3. 15
4. 7
5. 12
6. 25
7. 90
8. 21

Halve and halve again to divide each number by 4.

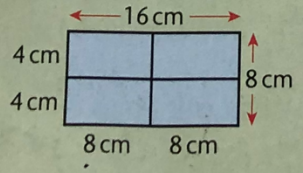
9. 40
10. 28
11. 120
12. 32
13. 20
14. 44
15. 24
16. 60

Use squared paper. Draw each shape half the size of the measurements shown.

17.



18.



B

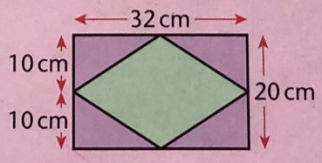
Double, double and double again to multiply each number by 8.

1. 8
2. 13
3. 25
4. 70
5. 6
6. 20
7. 55
8. 18

Halve, halve and halve again to divide each number by 8.

9. 600
10. 88
11. 40
12. 480
13. 120
14. 640
15. 360
16. 112

17. Use squared paper. Draw the flag half the size of the measurements shown.



18. Now draw the flag one quarter the size of the measurements shown.

C

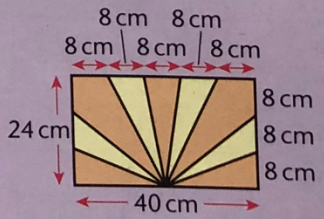
Copy and complete.

1. $\square \times 8 = 4000$
2. $\square \times 8 = 248$
3. $\square \times 8 = 296$
4. $\square \times 8 = 280$
5. $\square \div 8 = 60$
6. $\square \div 8 = 23$
7. $\square \div 8 = 95$
8. $\square \div 8 = 17$

Double the first answer to work out the second.

9. 20×6
   20×12
10. 5×9
    5×18
11. 7×8
    7×16
12. 11×7
    11×14

13. Use squared paper. Draw the flag one quarter the size of the measurements shown.



14. Now draw the flag one eighth size.