

Summary of multiplication strategies

1 Using facts you already know

- a Splitting one number and using multiplication facts you know

Example $17 \times 6 = (10 \times 6) + (5 \times 6) + (2 \times 6)$
 $= 60 + 30 + 12$
 $= 102$

Learn your
multiplication facts
up to 10×10 .



- b Taking some off or adding some on

Example $11 \times 6 = (10 \times 6) + 6 = 66$
 $9 \times 12 = (10 \times 12) - 12$
 $= 120 - 12$
 $= 108$

- c Using twos facts and doubling

Example 16×7
 $2 \times 7 = 14$
 $4 \times 7 = \text{double } 14 = 28$
 $8 \times 7 = \text{double } 28 = 56$
 $16 \times 7 = \text{double } 56 = 112$

2 Multiplying tens

Examples $5 \times 70 = 5 \times 7 \text{ tens}$
 $= 35 \text{ tens}$
 $= 350$

$$\begin{aligned} 80 \times 40 &= 8 \text{ tens} \times 4 \text{ tens} \\ &= 8 \times 10 \times 4 \times 10 \\ &= 32 \times 100 \\ &= 3200 \end{aligned}$$