List the factors of these numbers:

a 18								
c 14								
e 16								
g 30								

b 25								
d 9								
f 15								
h 42								

Fill the gaps in these sentences. The first one has been done for you.

a _1_ or _16_ or _2_ or _8_ or _4_ people can share 16 sweets evenly.

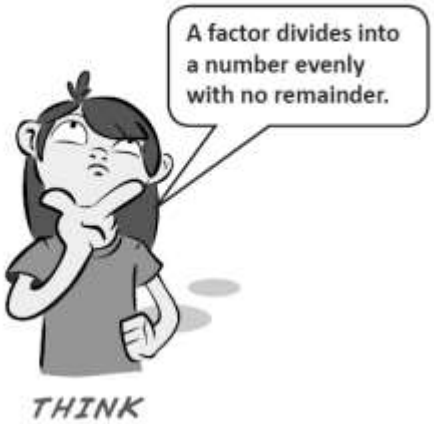
b _____ or _____ or _____ or _____ or _____ or _____ people can share 20 slices of pie evenly.

c _____ or _____ or _____ or _____ or _____ or _____ or _____ or _____ people can share 24 cherries.

d _____ or _____ or _____ or _____ or _____ or _____ or _____ or _____ people can share 30 pencils.

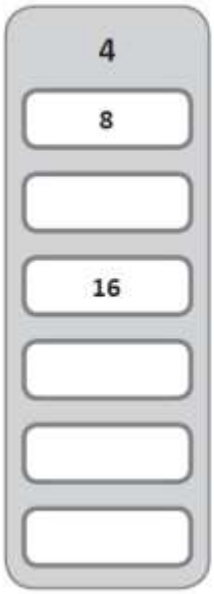
e _____ or _____ people can share 5 balls evenly.

Use a calculator to help you find as many factors of 384 as you can:

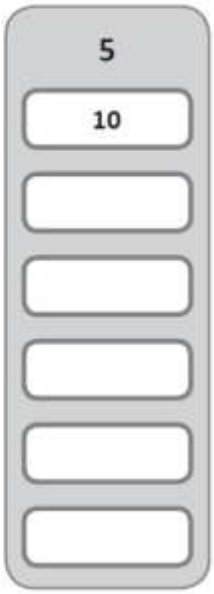


Fill in the gaps on these multiple boards:

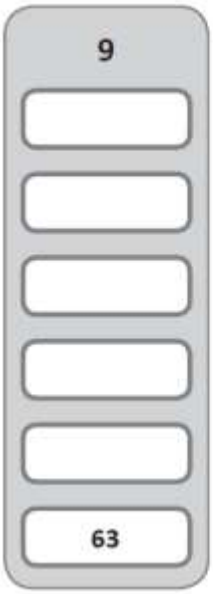
a



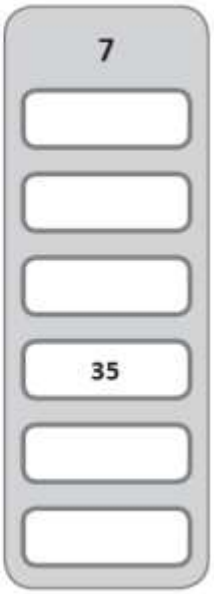
b



c



d



Choose 2 numbers between 2 and 5 and put them in the first frame as factors. Your answer is the multiple. Now take that multiple and make it a factor in another number sentence. Write in the other factor and solve the problem. Then make the answer a factor again. Can you fill the grid? Use a calculator for the larger problems. The first one has been done for you.

a	3 × 4 = 12	12 × 2 = 24	24 × 2 = 48
b	□ × □ = □	□ × □ = □	□ × □ = □
c	□ × □ = □	□ × □ = □	□ × □ = □
d	□ × □ = □	□ × □ = □	□ × □ = □

1. Can you spell the words ***multiple, factor*** and ***digit*** ? Ask someone to test you.

2. How many digits have these numbers?

   12, 3 843, 143, 9 000 000

3. If one number divides exactly into another with no remainder, we say the second number is a **multiple** of the first number.

   E.g. **6** divides exactly into **12**, therefore **12** is a multiple of **6**.
   5 divides exactly into **45**, therefore **45** is a multiple of **5.**

   Which of these statements are true and which are false?

   a) **16** is a multiple of **4**
   b) **42** is a multiple of **7**
   c) **15** is a multiple of **2**
   d) **100** is a multiple of **3**
   e) **25** is a multiple of **5**
   f) **24** is a multiple of **17**
   g) **40** is a multiple of **4** and **10**
   h) **27** is a multiple of **3** and **9**
   i) **35** is a multiple of **7** and **6**
   j) **30** is a multiple of **4**
   k) **28** is a multiple of **2, 4, 7** and **14**

4. If one number divides exactly into another with no remainder, we say the first number is a **factor** of the second number.

E.g. **7** divides exactly into **14**, therefore **7** is a factor of **14**.
3 divides exactly into **21**, therefore **3** is a factor of **21.**

Which of these statements are true and which are false?

   a) **6** is a factor of **42**
   b) **6** is a factor of **72**
   c) **3** is a factor of **27**
   d) **10** is a factor of **34**
   e) **8** is a factor of **54**
   f) **9** is a factor of **90**
   g) **2** and **5** are factors of **10**
   h) **12** and **7** are factors of **72**
   i) **8** and **5** are factors of **80**
   j) **2** and **4** are factors of **4**
   k) **1**, **3** and **8** are factors of **48**

5. Write down three multiples of **7** smaller than **50.**