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2-digit by Multi-digit Multiplication

1. Complete the multiplication tables.

Example: 4 x 8 = 32 40 x 80 = 3,200 40 x 800 = 32,000 40 x 8,000 = 320,000	7 x 4 = 70 x 40 = 70 x 400 = 70 x 4,000 =	9 x 6 = 90 x 60 = 90 x 600 = 90 x 6,000 =	8 x 5 = 80 x 50 = 80 x 500 = 80 x 5,000 =
6 x 4 = 60 x 40 = 60 x 400 = 60 x 4,000 =	9 x 3 = 90 x 30 = 90 x 300 = 90 x 3,000 =	2 x 10 = 20 x 100 = 20 x 1,000 = 20 x 10,000 =	10 x 12 = 100 x 120 = 100 x 1200 = 100 x 12,000 =

2. Use facts and multiplication patterns to find the product.

a. 70 x 90
b. 80 x 50
c. 40 x 1,100
d. 60 x 7,000
e. 20 x 3,000

Solution:
a.
b.
c.
d.
e.

f. 60 x 1,000
g. 10 x 6,500
h. 30 x 2,000
i. 90 x 700
j. 80 x 12,000

Solution:
f.
g.
h.
i.
j.

3. There are 35 boxes of pencils in the school supply office. Each box has 10 pencils. How many pencils are there altogether?

Solution:

4. A movie theatre ticket costs $10 in a single show in California. The movie theatre sold about 12,000 a day. How much money did they collect by selling tickets in a day?

Solution:

5. Maxine bought 40 stuffed toys to give as return gifts for her birthday party, each costing $8. She also bought 20 crayon packs for $3 each. How much money did she spend in total?

Solution:

6. What is the value of a if a x a = 6,400?
   a. 16   c. 40
   b. 80   d. None of the above

Solution:

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1. Complete the multiplication tables.

Example:	7 x 4 = 28	9 x 6 = 54	8 x 5 = 40
4 x 8 = 32			
40 x 80 = 3,200	70 x 40 = 2,800	90 x 60 = 5,400	80 x 50 = 4,000
40 x 800 = 32,000	70 x 400 = 28,000	90 x 600 = 54,000	80 x 500 = 40,000
40 x 8,000 = 320,000	70 x 4,000 = 280,000	90 x 6,000 = 540,000	80 x 5,000 = 400,000

6 x 4 = 24	9 x 3 = 27	2 x 10 = 20	10 x 12 = 120
60 x 40 = 2,400	90 x 30 = 2,700	20 x 100 = 2,000	100 x 120 = 12,000
60 x 400 = 24,000	90 x 300 = 27,000	20 x 1,000 = 20,000	100 x 1200 = 120,000
60 x 4,000 = 240,000	90 x 3,000 = 270,000	20 x 10,000 = 200,000	100 x 12,000 = 1200,000

2. Use facts and multiplication patterns to find the product.

   a. 70 x 90
   b. 80 x 50
   c. 40 x 1,100
   d. 60 x 7,000
   e. 20 x 3,000

   a. 6,300
   b. 4,000
   c. 44,000
   d. 420,000
   e. 60,000

   f. 60 x 1,000
   g. 10 x 6,500
   h. 30 x 2,000
   i. 90 x 700
   j. 80 x 12,000

   f. 60,000
   g. 65,000
   h. 60,000
   i. 63,000
   j. 960,000

3. There are 35 boxes of pencils in the school supply office. Each box has 10 pencils. How many pencils are there altogether?

   350 pencils

4. A movie theatre ticket costs $10 in a single show in California. The movie theatre sold about 12,000 a day. How much money did they collect by selling tickets in a day?

   $120,000

5. Maxine bought 40 stuffed toys to give as return gifts for her birthday party, each costing $8. She also bought 20 crayon packs for $3 each. How much money did she spend in total?

   $380

6. What is the value of a if $a \times a = 6,400$?
   a. 16   c. 40
   b. 80   d. None of the above

   b