

3rd Grade



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MULTIPLYING BY MULTIPLES OF 10

3rd grade

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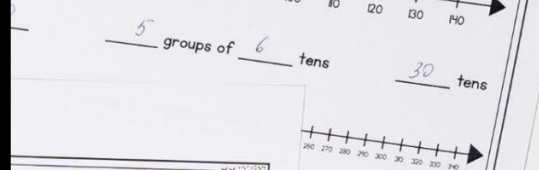
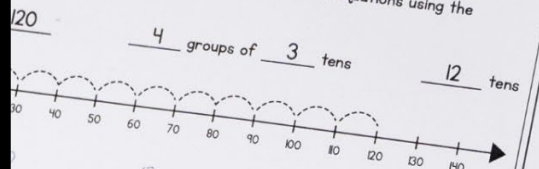
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MULTIPLYING BY MULTIPLES OF 10

skip counting

Count by 10s to solve the following multiplication equations using the



DATE: _____

MULTIPLES OF 10

8

7

...ation fact you ca

How do I MULTIPLY BY A MULTIPLE OF 10?

3 groups of 6 ones is 18

3 groups of 6 tens is 180

Multiplying by a multiple of 10, the product is the same as multiplying by the factor with an extra zero at the end:

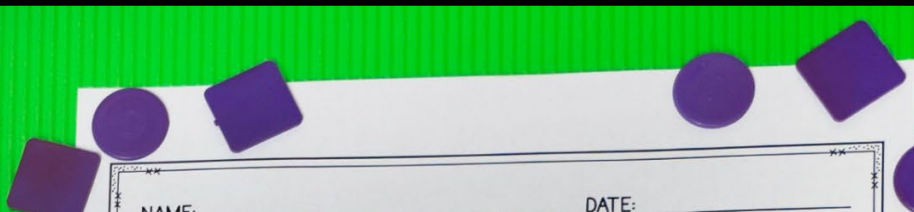
$$2 \times 70 = 140$$

of multiplication, I can break down the

$$(7 \times 10) = 2 \times 7 \times 10 = 14 \times 10$$

number by 10 by placing a zero at the end. I know that:

$$2 \times 10 = 140$$

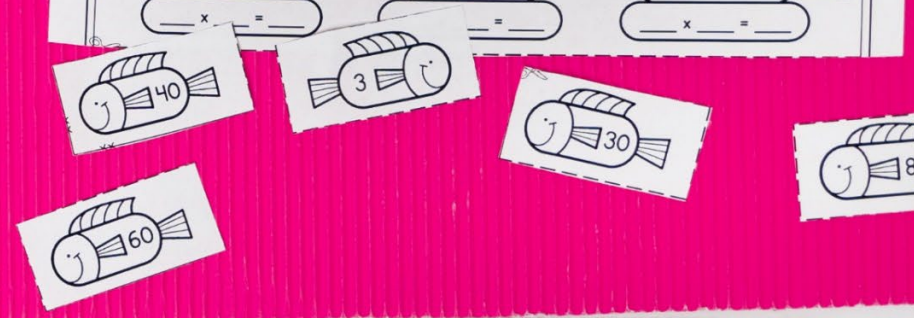


NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

fish in a bowl

Directions: Cut out the fish below. Choose two fish, one right-facing and one left-facing, and place them inside a fishbowl. Write a multiplication equation using the numbers on the fish and solve.



MULTIPLYING BY MULTIPLES OF 10

fish in a bowl

Directions: Choose two fish, one right-facing and one left-facing, and drag them inside the fishbowl. Write a multiplication equation using the numbers on the fish and solve.

$$80 \times 6 = 480$$

MULTIPLYING BY MULTIPLES OF 10

MULTIPLYING BY MULTIPLES OF 10

Directions: and place the fish in a tank.

NAME: _____

Directions: Solve the

1 At the sea many cr

MULTIPLYING BY MULTIPLES OF 10

Directions: For each multiplication problem, make equal groups. Solve.

EX $7 \times 50 = 350$
 7 groups of 50
 7 groups of 50

1 $80 \times 3 = 240$
 3 groups of 80
 3 groups of 80

2 $4 \times 90 = 360$
 4 groups of 90
 4 groups of 90

MULTIPLYING BY MULTIPLES OF 10

Directions: Skip count.

EX 30, 60, 90, 120, 150, 180, 210, 240, 270, 300

1

MULTIPLYING BY MULTIPLES OF 10

Directions: For each problem, help you solve it. F

1 $9 \times 80 = 720$
 Basic fact: $9 \times 8 = 72$

3 $7 \times 40 = 280$
 Basic fact: $7 \times 4 = 28$

5 $20 \times 8 = 160$
 Basic fact: $2 \times 8 = 16$

7 $4 \times 30 = 120$
 Basic fact: $4 \times 3 = 12$

9 $90 \times 2 = 180$
 Basic fact: $9 \times 2 = 18$

how do i multiply by a multiple of 10

$3 \times 6 = ?$

$3 \times 60 = ?$

Notice that when multiplying by a multiple of 10, the product is the same as the basic fact with an extra zero.

$2 \times 7 = 14$

Using the associative property of multiplication, write a larger equation:

$2 \times 70 = 2 \times (7 \times 10) = 14 \times 10 = 140$

I know that I can multiply any number by a multiple of 10 by multiplying the number by the end of that number, so I also know that:

$14 \times 10 = 140$

4 10 2

DATE: _____

MULTIPLIES OF 10

According to the answer:

green	red	brown
560		120
150	500	90
70		250

DATE: _____

MULTIPLIES OF 10

Right-facing and one left-facing, equation using the numbers on the

8 7 1

DATE: _____

MULTIPLYING BY MULTIPLES OF 10

NAME: _____

Directions: Solve the story problem.

1 At the school, many crayons

DATE: _____

MULTIPLYING BY MULTIPLES OF 10

NAME: _____

using related facts

Directions: For each equation, write the related basic multiplication fact you can help you solve it. Find the product of both equations.

Ex $3 \times 50 = 150$
Basic fact: $3 \times 5 = 15$

2 $70 \times 8 =$

DATE: _____

MULTIPLYING BY MULTIPLES OF 10

think fast

Directions: Solve each multiplication equation, dragging the product onto the equation. Time yourself to see how quickly you can correctly complete all the problems. Can you improve your time by playing a second time?

120	7×40	50×8	30×9	8×70	150	30×6	90×9
9×60	80×4	3×70	360	5×40	30×10	5×50	160

250 300 180 280 210 810 400 560 270 320 200 540

NAME: _____

MULTIPLYING BY MULTIPLES OF 10

Directions: For each multiplication equation, make equal groups. Solve.

Ex $7 \times 50 =$
 $\frac{7}{10} \times \frac{5}{10} = \frac{35}{100}$

1

Directions: Skip count by the number line.

Ex $30 \times 4 =$

7 $60 \times 5 =$

how do i

MULTIPLY BY A MULTIPLE OF 10?

$3 \times 6 = ?$

3 groups of 6 ones is 18

$3 \times 60 = ?$

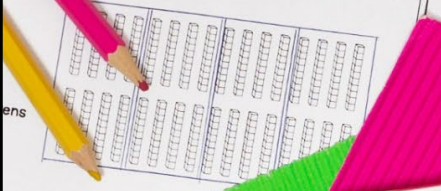
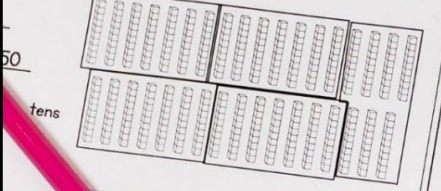
3 groups of 6 tens is 180

Notice that when multiplying by a multiple of 10, the product is

MULTIPLYING BY MULTIPLES OF 10

base 10 blocks

Directions: For each equation, draw circles around the base ten blocks to



Directions: Skip count by 10s to solve the following multiplication equations using the number line.

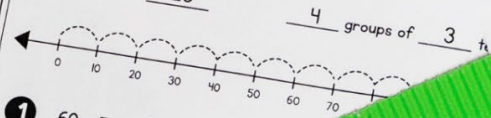


MULTIPLYING BY MULTIPLES OF 10

skip counting

Directions: Skip count by 10s to solve the following multiplication equations using the number line.

EX $30 \times 4 = 120$



1 $60 \times 5 = 300$



MULTIPLYING BY MULTIPLES OF 10

Directions: Solve the equations. At the school, many children

MULTIPLYING BY MULTIPLES OF 10

Directions: For each equation, help you solve it. Find the product.

1 $9 \times 80 = 720$
Basic fact: $9 \times 8 = 72$

3 $7 \times 40 = 280$
Basic fact: $7 \times 4 = 28$

5 $20 \times 8 = 160$
Basic fact: $2 \times 8 = 16$

7 $4 \times 30 = 120$
Basic fact: $4 \times 3 = 12$

9 $90 \times 2 = 180$
Basic fact: $9 \times 2 = 18$

MULTIPLYING BY MULTIPLES OF 10

skip counting

Directions: Skip count by 10s to solve the following multiplication equations using the number line. Drag the half circles onto the number line.

2 $9 \times 20 =$ tens
groups of tens

3 $7 \times 30 =$ tens
groups of tens

MULTIPLYING BY MULTIPLES OF 10

Directions: Cut out the fish below. Choose two fish, one right-facing and one left-facing, and place them inside a fishbowl. Write a multiplication equation using the numbers on the fish and solve.

red

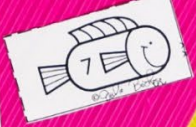
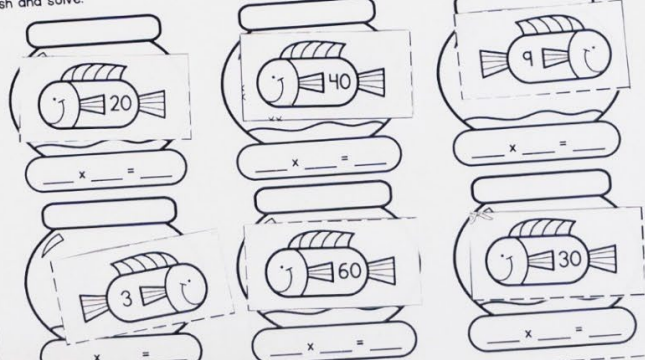
500



MULTIPLYING BY MULTIPLES OF 10

fish in a bowl

Directions: Cut out the fish below. Choose two fish, one right-facing and one left-facing, and place them inside a fishbowl. Write a multiplication equation using the numbers on the fish and solve.



$3 \times 60 = ?$

Notice that when the same as the base ten blocks.

$2 \times 7 = 14$

Using the associative property, write a larger equation:

$2 \times 70 = 2 \times (7 \times 10)$

that I can multiply any number by that number, so I also know

$14 \times 10 = 140$

NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

story problems

Directions: Solve the story problems.

- 1 At the school store, crayons are sold in 6 packs. *180 crayons*

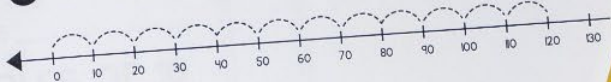
NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

skip counting

Directions: Skip count by 10s to solve the following multiplication equations using the number line.

EX $30 \times 4 = 120$ 4 groups of 3 tens 12



1 $60 \times 5 = 300$ 5 groups of 6 tens



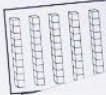
NAME: _____

MULTIPLYING BY MULTIPLES OF 10

base 10 block

Directions: For each multiplication equation, draw circle to make equal groups. Solve.

EX $7 \times 50 = 350$
7 groups of 50



1 $80 \times 3 = 240$
3 groups of 80

2 $4 \times 90 = 360$
4 groups of 90

how do I
MULTIPLY BY A
MULTIPLE OF 10?

$3 \times 6 = ?$



3 groups of 6 ones is 18

$3 \times 60 = ?$



3 groups of 6 tens is 180



Notice that when multiplying by a multiple of 10, the product is the same as the basic fact with an extra zero at the end:

$2 \times 7 = 14$

$2 \times 70 = 140$

Using the associative property of multiplication, I can break down the larger equation:

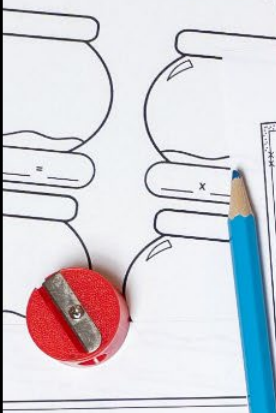
$2 \times 70 = 2 \times (7 \times 10) = 2 \times 7 \times 10 = 14 \times 10$

I know that I can multiply any number by 10 by placing a zero at the end of that number, so I also know that:

$14 \times 10 = 140$

BY MULTIPLES

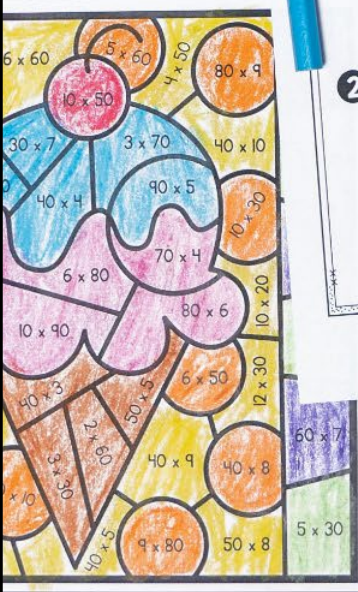
use two fish, one right-facing and one left-facing, to write a multiplication equation using the number line.



BY MULTIPLE

then, color the picture according to the key.

purple	pink	green
240	480	560
350	280	150
420	900	270



MULTIPLY

Directions: For each equation, use the number line to help you solve it. Find the product.

EX $3 \times 50 = 150$

1 $9 \times 80 = 720$

Basic fact: $9 \times 8 = 72$

3 $7 \times 40 = 280$

Basic fact: $7 \times 4 = 28$

$2 \times 8 = 16$

fact: $2 \times 8 = 16$

$3 \times 4 = 12$

8

10 $3 \times 3 = 9$

Basic



NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

base 10 blocks

For each multiplication equation, draw circles around the base ten blocks to

groups of 50

350

1

NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

skip counting

Directions: Skip count by 10s to solve the following multiplication

number line.

EX $30 \times 4 = 120$

3 9

NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

associative property

Directions: Use the associative property of multiplication to solve the following equations.

EX $8 \times 50 = 8 \times 5 \times 10 = 40 \times 10 = 400$

1 $3 \times 90 = \square \times \square \times \square = \square \times \square = \square$

2 $60 \times 4 = \square \times \square \times \square = \square \times \square = \square$

3 $7 \times 30 = \square \times \square \times \square = \square \times \square = \square$

NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

color the picture according to

color	pink	green
multiple	480	560
240	480	150
350	280	270
420	900	

6 x 60, 5 x 60, 4 x 50, 80 x 9, 40 x 10, 70 x 8, 3 x 70, 90 x 5, 10 x 30, 7 x 50, 9 x 50, 40 x 4, 60 x 8, 10 x 90, 40 x 7, 10 x 40, 90 x 8, 40 x 3, 2 x 80, 30 x 10, 3 x 30, 40 x 9, 40 x 8, 50 x 8, 80 x 7, 80 x 4, 80 x 5, 40 x 5, 9 x 80, 12 x 30, 60 x 7, 6 x 50, 80 x 6, 10 x 10, 9 x 30

NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

fish in a bowl

Directions: Cut out the fish below. Choose two fish, one right-facing and one left-facing, and place them inside a fishbowl. Write a multiplication equation using the numbers on the fish to solve.

3 40 9 30 60 80

at when multiplying by 10, the basic fact with the property of multiplication

$7 \times 10 = 70$

so I also multiply the number by 10 by placing the decimal point one place to the right.

$14 \times 10 = 140$

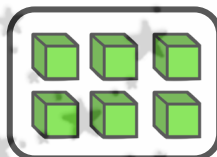
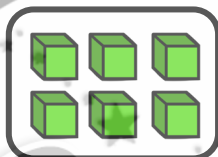


how do i

MULTIPLY BY A MULTIPLE OF 10?

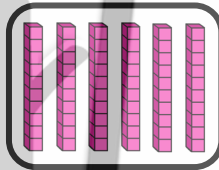
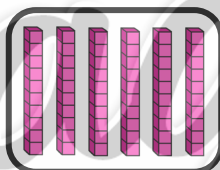
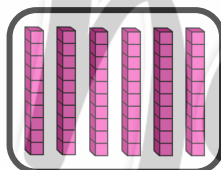


$$3 \times 6 = ?$$

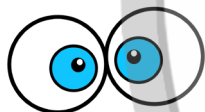


3 groups of
6 ones is 18

$$3 \times 60 = ?$$



3 groups of
6 tens is 180



Notice that when multiplying by a multiple of 10, the product is the same as the basic fact with an extra zero at the end:

$$2 \times 7 = \underline{14}$$

$$2 \times 70 = \underline{140}$$

Using the associative property of multiplication, I can break down the larger equation:

$$2 \times 70 = 2 \times (7 \times 10) = 2 \times 7 \times 10 = 14 \times 10$$

I know that I can multiply any number by 10 by placing a zero at the end of that number, so I also know that:

$$14 \times 10 = 140$$

NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

associative property

Directions: Use the associative property of multiplication to solve the following equations.

EX $30 \times 7 = \underline{10} \times \underline{3} \times \underline{7} = \underline{10} \times \underline{21} = \underline{210}$

1 $8 \times 60 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

2 $50 \times 5 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

3 $4 \times 30 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

4 $9 \times 40 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

5 $90 \times 5 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

6 $30 \times 9 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

7 $6 \times 60 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

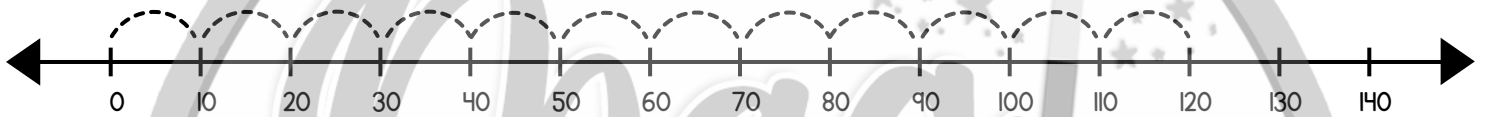
NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

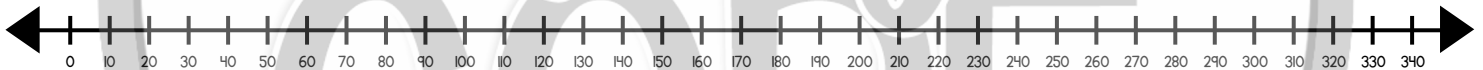
skip counting

Directions: Skip count by 10s to solve the following multiplication equations using the number line.

EX $30 \times 4 =$ 120 4 groups of 3 tens 12 tens



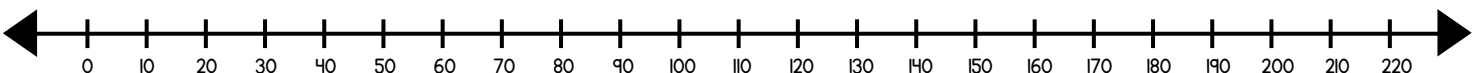
1 $60 \times 5 =$ _____ groups of _____ tens _____ tens



2 $9 \times 20 =$ _____ groups of _____ tens _____ tens



3 $7 \times 30 =$ _____ groups of _____ tens _____ tens



NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

base 10 blocks

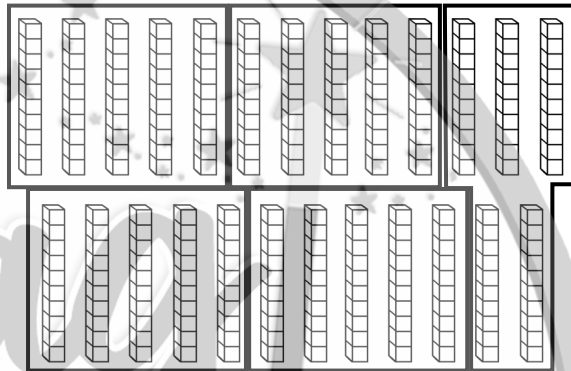
Directions: For each multiplication equation, draw circles around the base ten blocks to make equal groups. Solve.

EX

$$5 \times 50 = \underline{250}$$

5 groups of 50

5 groups of 5 tens

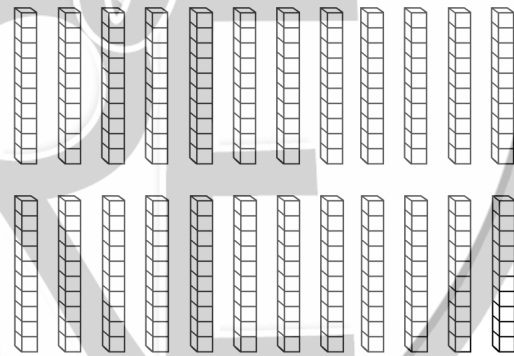


1

$$60 \times 4 = \underline{\hspace{2cm}}$$

 groups of

 groups of tens

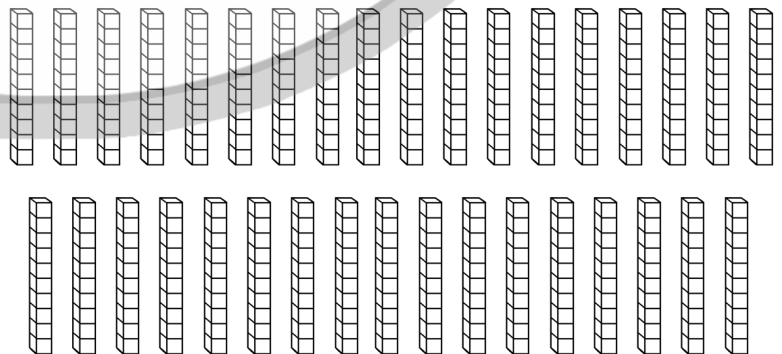


2

$$7 \times 50 = \underline{\hspace{2cm}}$$

 groups of

 groups of tens



NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

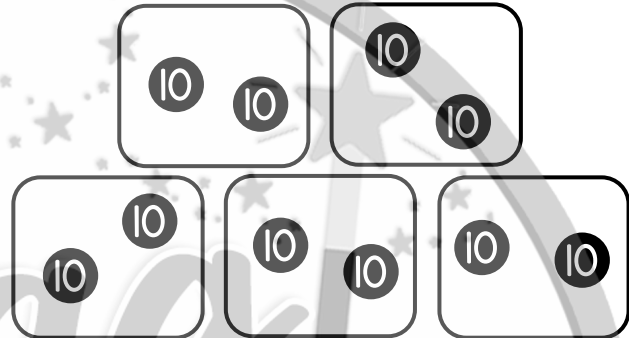
equal groups

Directions: For each multiplication equation, draw a picture to show equal groups. Solve.

EX $5 \times 20 = \underline{100}$

5 groups of 20

5 groups of 2 tens



1 $7 \times 70 = \underline{\hspace{2cm}}$

 groups of

 groups of tens

2 $60 \times 5 = \underline{\hspace{2cm}}$

 groups of

 groups of tens

3 $70 \times 9 = \underline{\hspace{2cm}}$

 groups of

 groups of tens

NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

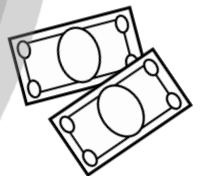
story problems

Directions: Solve the story problems.

- 1** At the school store, crayons are sold in packs of 30. How many crayons are there in 6 packs?



- 2** Michelle receives \$5 in allowance per week. She has been saving her allowance for 30 weeks. How much money does Michelle have?

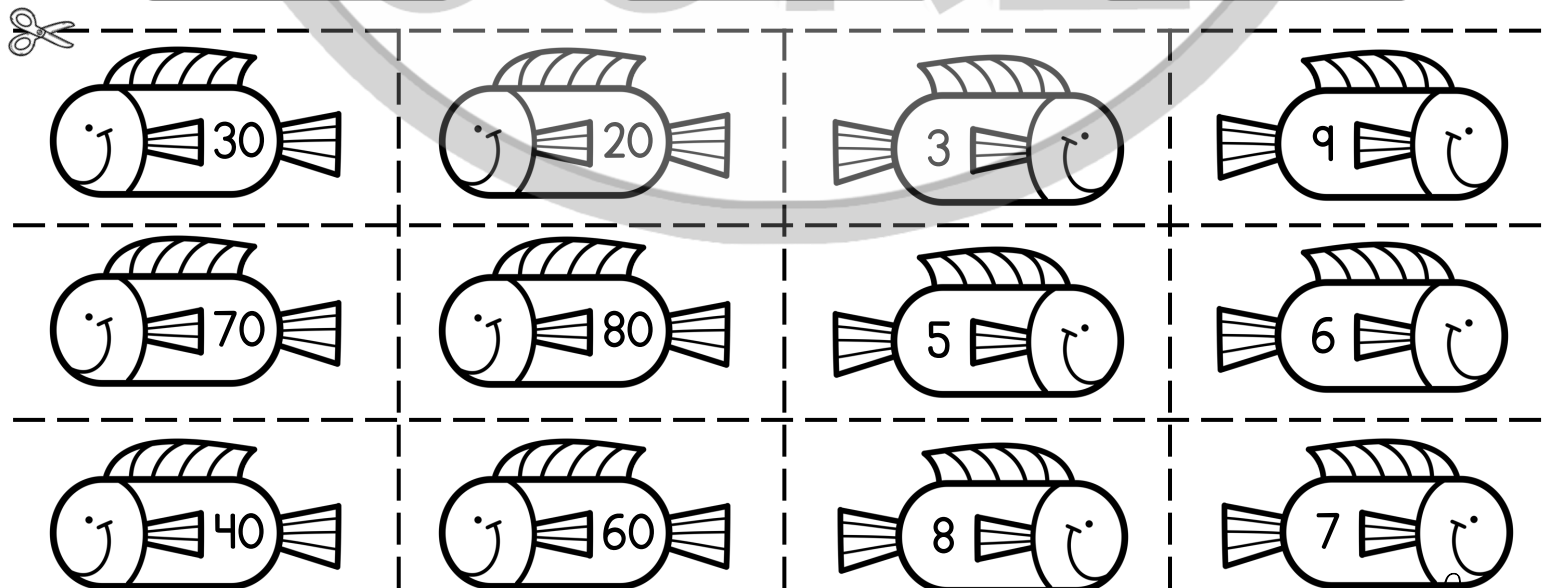


NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

fish in a bowl

Directions: Cut out the fish below. Choose two fish, one right-facing and one left-facing, and place them inside a fishbowl. Write a multiplication equation using the numbers on the fish and solve.



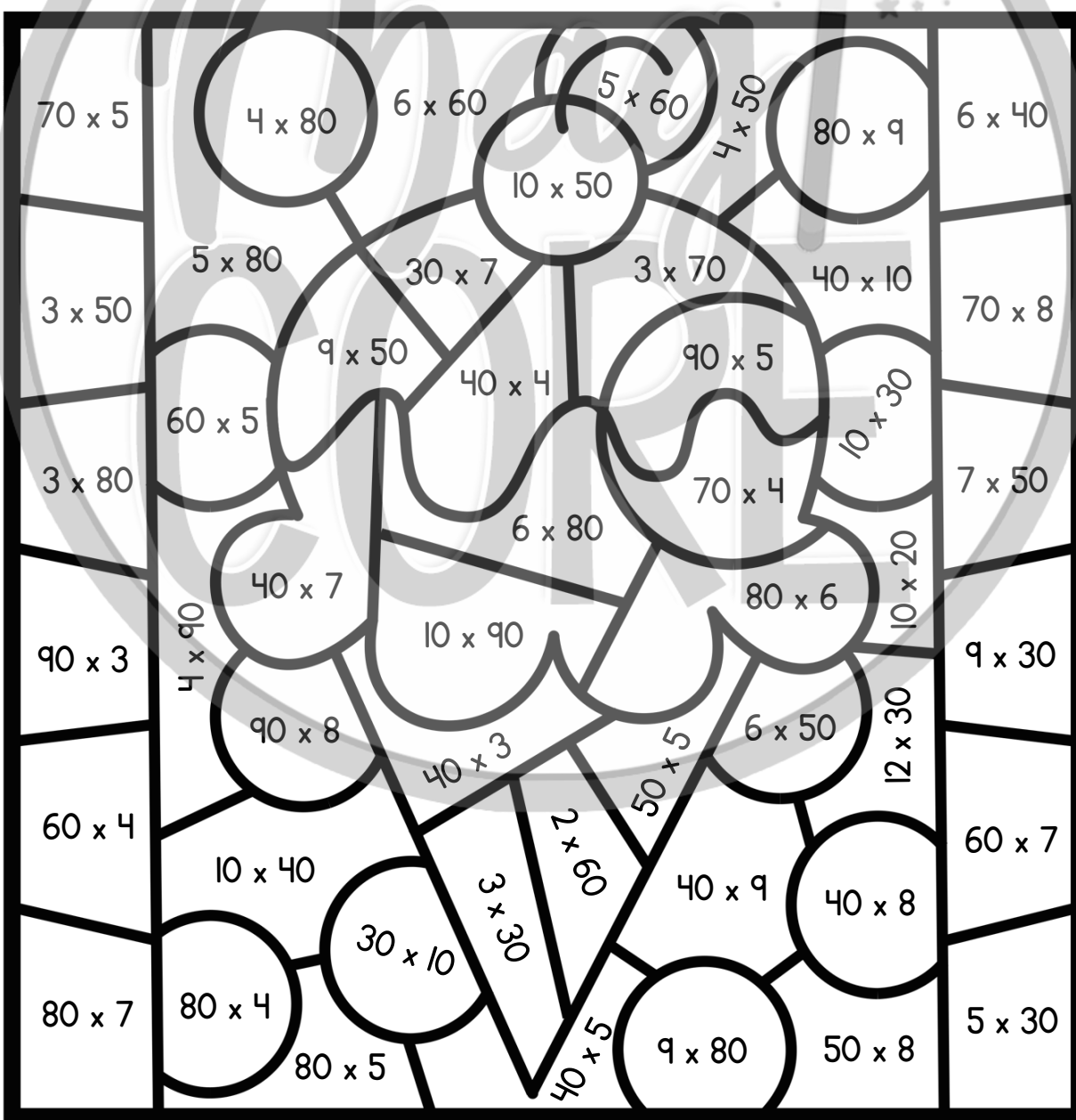
NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

color by number

Directions: Solve each equation. Then, color the picture according to the answer.

yellow	blue	orange	purple	pink	green	red	brown
400	450	720	240	480	560		120
360	210	300	350	280	150	500	90
200	160	320	420	900	270		250



NAME: _____ DATE: _____

MULTIPLYING BY MULTIPLES OF 10

test review

Directions: Solve the multiplication equations using the associative property.

1 $4 \times 70 =$ _____ $\times$ _____ $\times$ _____ $=$ _____ $\times$ _____ $=$ _____

2 $30 \times 8 =$ _____ $\times$ _____ $\times$ _____ $=$ _____ $\times$ _____ $=$ _____

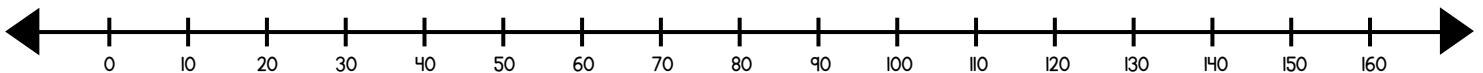
3 $7 \times 90 =$ _____ $\times$ _____ $\times$ _____ $=$ _____ $\times$ _____ $=$ _____

Directions: Skip count by 10s to solve the following multiplication equations using the number line.

4 $60 \times 4 =$ _____ groups of _____ tens _____ tens



5 $5 \times 30 =$ _____ groups of _____ tens _____ tens



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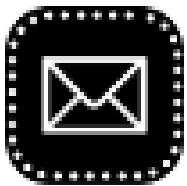
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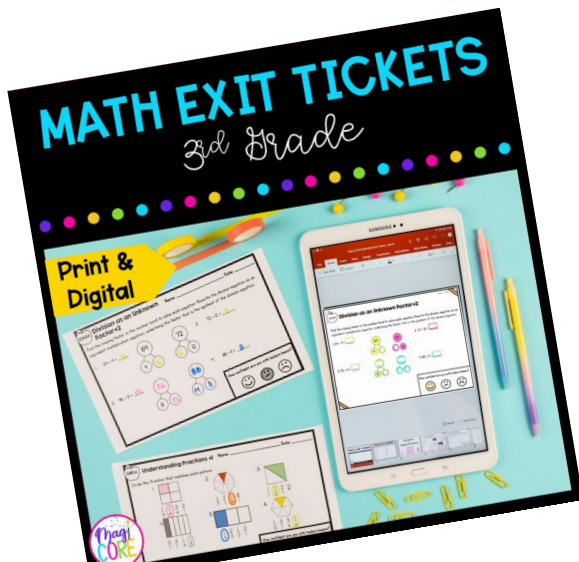


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