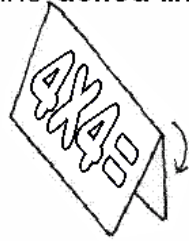



1. Flash the Math.

FLASH CARDS

Cut out these cards along the **solid lines**.
Fold along the **dotted lines** to make two-sided
flash cards.



 Color and decorate
your flash cards.
Take your time, make
them really fancy.
Think about the
numbers as you color.
That will help you
memorize the facts.

16	$4 \times 4 =$	28	$4 \times 7 =$	40	$4 \times 10 =$
12	$4 \times 3 =$	24	$4 \times 6 =$	36	$4 \times 9 =$
8	$4 \times 2 =$	20	$4 \times 5 =$	32	$4 \times 8 =$

2. Play the Math.

Play two games on the next pages to help you learn your 4x facts.

The first game is called ...

... *How far can you go?*

The second game is called ...

... *Math Search*

If you need to check your answers, use this table. If you don't know how to use a multiplication table ask someone who does. (Do you notice any patterns in this table?)

X	1	2	3	4
1	1	2	3	4
2	2	4	6	8
3	3	6	9	12
4	4	8	12	16
5	5	10	15	20
6	6	12	18	24
7	7	14	21	28
8	8	16	24	32
9	9	18	27	36

How far can you go??

This is a Flash Card Game:



Stack your flash card pack answer-side down. Pick up a card and try to give the correct answer. Keep on going until you get one wrong. When you get one wrong, stop. Put all the cards back on the stack and start again from the beginning. Repeat until you can get all the facts right. When you get all the flash cards right with no mistake, you've **Beaten the section.**

✓✓✓✓✓✓X

✓✓✓✓✓✓✓✓✓✓X

math search

(Play like WORD SEARCH)

Find 4x math facts. Watch out for wrong answers hidden in search.

4	x	5	=	30	x	4
x	4	x	3	=	11	x
2	4	x	4	=	16	2
=	4	x	4	x	18	=
4	4	x	5	=	1	8
12	x	x	3	=	18	=
16	=	1	5	=	20	16
4	x	3	=	12	10	8
4	x	3	=	4	20	2

Math facts to find. Cross out when you find them.

$4 \times 1 = 4$ $4 \times 2 = 8$ $4 \times 3 = 12$ $4 \times 4 = 16$

$4 \times 5 = 20$

math search

(Play like WORD SEARCH)

Find 4x math facts. Watch out for hidden wrong answers.

3	40	4	7	16	24	28	32
4	4	4	x	10	=	40	=
x	5	x	10	9	=	x	32
6	4	4	6	8	=	24	36
=	40	x	28	=	26	36	4
24	24	5	7	4	32	x	x
4	x	8	=	=	14	4	7
24	4	x	8	=	32	36	=
4	x	7	=	28	14	18	36

Math facts to find. Cross out when you find them.

$4 \times 6 = 24$ $4 \times 7 = 28$ $4 \times 8 = 32$ $4 \times 9 = 36$

$4 \times 10 = 40$

math search *continued*

(Play like WORD SEARCH)

Find 2x, 3x, and 4x math facts. Watch out for hidden wrong answers.

3	x	4	=	24	5	9	0
4	x	4	=	16	x	8	=
x	x	8	3	x	4	24	x
3	x	4	=	16	16	12	3
x	10	16	=	24	=	43	4
4	12	8	x	2	=	16	8
=	16	12	x	7	36	24	8
12	8	6	x	4	=	24	24
32	9	3	45	8	x	16	12

Math facts to find. Cross out when you find them.

$3 \times 8 = 24$

$6 \times 4 = 24$

$6 \times 2 = 12$

$3 \times 4 = 12$

$4 \times 4 = 16$

$2 \times 8 = 16$

X-Ray Vision



Fold this sheet neatly and evenly in half, with the printed side on the outside. Solve as many of the problems as you can in **90 seconds**. When you are done, hold the folded paper - problem side facing you - up to the light. You will see the correct answers through the paper. **Check your answers!** If you have trouble seeing through the paper, press the two halves of the paper closer together.

$$\begin{array}{r} 39 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times 88 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 20 \\ \hline \end{array}$$

3. Work the Math.

1st 90 Seconds of Math

The next three pages have timed drills. Do these problems with a stop-watch. How many can you get right in 90 seconds? Try to beat your own score on each page.

HOLD UP TO THE LIGHT TO CHECK ANSWERS

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

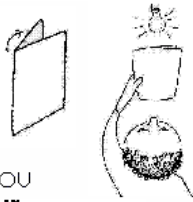
$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

FOLD ALONG LINE

3. Work the Math. 2nd sheet

Fold this sheet neatly and evenly in half, with the printed side on the outside. Solve as many of the problems as you can in **90 seconds**. When you are done, hold the folded paper - problem side facing you - up to the light. You will see the correct answers through the paper. **Check your answers!** If you have trouble seeing through the paper, press the two halves of the paper closer together.



82	02	8	42	42	11	8
33	82	02	8	11	4	82
23	21	82	11	02	21	8
33	82	11	8	23	4	33
21	23	82	02	42	02	23
42	42	02	21	04	23	33

3. Work the Math.

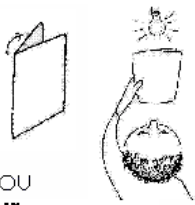
2nd 90 Seconds of Math
Hold up to light to check answers

<u>4</u>	<u>4</u>	<u>4</u>	<u>6</u>	<u>4</u>	<u>4</u>	<u>4</u>
<u>x 2</u>	<u>x 4</u>	<u>x 6</u>	<u>x 4</u>	<u>x 2</u>	<u>x 5</u>	<u>x 7</u>
<u>7</u>	<u>4</u>	<u>4</u>	<u>2</u>	<u>5</u>	<u>4</u>	<u>9</u>
<u>x 4</u>	<u>x 1</u>	<u>x 4</u>	<u>x 4</u>	<u>x 4</u>	<u>x 7</u>	<u>x 4</u>
<u>2</u>	<u>3</u>	<u>5</u>	<u>4</u>	<u>7</u>	<u>3</u>	<u>4</u>
<u>x 4</u>	<u>x 4</u>	<u>x 4</u>	<u>x 4</u>	<u>x 4</u>	<u>x 4</u>	<u>x 8</u>
<u>9</u>	<u>4</u>	<u>4</u>	<u>2</u>	<u>4</u>	<u>4</u>	<u>9</u>
<u>x 4</u>	<u>x 1</u>	<u>x 8</u>	<u>x 4</u>	<u>x 4</u>	<u>x 7</u>	<u>x 4</u>
<u>8</u>	<u>4</u>	<u>4</u>	<u>5</u>	<u>4</u>	<u>4</u>	<u>4</u>
<u>x 4</u>	<u>x 5</u>	<u>x 6</u>	<u>x 4</u>	<u>x 7</u>	<u>x 8</u>	<u>x 3</u>
<u>9</u>	<u>8</u>	<u>10</u>	<u>4</u>	<u>4</u>	<u>6</u>	<u>4</u>
<u>x 4</u>	<u>x 4</u>	<u>x 4</u>	<u>x 3</u>	<u>x 5</u>	<u>x 4</u>	<u>x 6</u>

FOLD ALONG LINE

3. Work the Math. 3rd sheet

Fold this sheet neatly and evenly in half, with the printed side on the outside. Solve as many of the problems as you can in **90 seconds**. When you are done, hold the folded paper - problem side facing you - up to the light. You will see the correct answers through the paper. **Check your answers!** If you have trouble seeing through the paper, press the two halves of the paper closer together.



82	01	33	23	04	21	4
33	82	02	21	42	8	22
23	04	23	33	42	21	8
81	82	21	8	11	4	33
33	23	12	11	42	02	8
42	04	02	11	82	8	33

3. Work the Math.

3rd 90 Seconds of Math
Hold up to light to check answers

<u>2</u>	<u>4</u>	<u>10</u>	<u>4</u>	<u>9</u>	<u>2</u>	<u>7</u>
<u>x 2</u>	<u>x 3</u>	<u>x 4</u>	<u>x 8</u>	<u>x 4</u>	<u>x 5</u>	<u>x 4</u>
<u>3</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>4</u>	<u>7</u>	<u>4</u>
<u>x 9</u>	<u>x 4</u>	<u>x 8</u>	<u>x 3</u>	<u>x 5</u>	<u>x 4</u>	<u>x 9</u>
<u>4</u>	<u>3</u>	<u>4</u>	<u>9</u>	<u>8</u>	<u>10</u>	<u>4</u>
<u>x 2</u>	<u>x 4</u>	<u>x 6</u>	<u>x 4</u>	<u>x 4</u>	<u>x 4</u>	<u>x 8</u>
<u>4</u>	<u>4</u>	<u>4</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>9</u>
<u>x 9</u>	<u>x 1</u>	<u>x 4</u>	<u>x 4</u>	<u>x 5</u>	<u>x 7</u>	<u>x 2</u>
<u>4</u>	<u>4</u>	<u>6</u>	<u>4</u>	<u>3</u>	<u>8</u>	<u>9</u>
<u>x 2</u>	<u>x 5</u>	<u>x 4</u>	<u>x 4</u>	<u>x 7</u>	<u>x 4</u>	<u>x 4</u>
<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>10</u>	<u>4</u>
<u>x 9</u>	<u>x 2</u>	<u>x 7</u>	<u>x 4</u>	<u>x 5</u>	<u>x 4</u>	<u>x 6</u>

FOLD ALONG LINE

3. Work the Math. Mastery Test

TO **BEAT** THE 4x LEVEL,

take this final test with an adult. Have the adult correct the test and sign at the bottom if you get ALL problems right in **90 secs.**

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

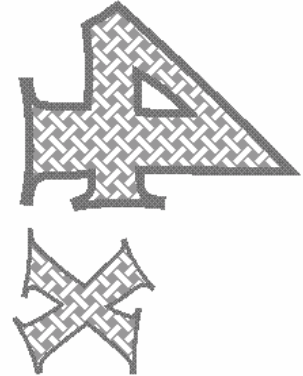
$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

100% of these problems were answered correctly. Signed _____

Congratulations



_____ name of student

has **Beaten** the 4x Level. This student has mastery over multiplying single digit numbers to 4.

signed _____