

# BMS – Sample Activity

## Mental Routine

### Target Strategies

- Familiarity with the multiplication grid
- Using the language of multiplication and tables
- Using patterns and relationships between multiplication facts
- Developing fluency with multiplication facts

## Resources

A *Multiplication Grid* for each student, as shown on the next slide, laminated or in a plastic sleeve. During the routine, students mark and find their answers on their own multiplication grid.

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

I would expect to see this as a response to “Find the product of 6 and 4 on the grid.”



# Multiplication Grid



1	2	3	4	5	6	7	8	9	10
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1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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## Open Questions

1. I am thinking of a multiplication fact that is in the 5s and the 10s multiplication table, what might it be?
2. I multiplied a number by 3 to make a product greater than 12. What number might I have multiplied (what might my multiplicand have been)?
3. My product was 24. Which numbers might I have multiplied?
4. I multiplied by 6. What might my product have been?
5. My multiplication fact has an odd/even product which two numbers might I have multiplied together?



It was good to see this as a response to Q5 “My product was 24.” All the 24s were marked on the grid before the choice of  $6 \times 4$  was made.

**Multiplication Grid** 

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

$6 \times 4$   
24