

Name	
Date	

1. Complete each computation.

11 x 1	= 11	11 x 8	=
11 x 2	= 22	11 x 9	=
11 x 3	= 33	11 x 10	=
11 x 4	= 44	11 x 11	=
11 x 5	=	11 x 12	=
11 x 6	=	11 x 13	=
11 x 7	=		

- 2. What patterns do you notice in the answers?
- 3. Predict these products:
 - 11 x 18 = _____
 - 11 x 19 = _____
- 4. Use your calculator to find these two products:
 - 11 x 18 = _____
 - 11 x 19 = _____

Explain why your predictions were or were not accurate.

5. What happens when you multiply any two-digit number by 11? Write a generalization that explains the pattern.

6. Complete each computation:

20

14 x 111 =	36 x 111 =
18 x 111 =	52 x 111 =
24 x 111 =	54 x 111 =
26 x 111 =	74 x 111 =
34 x 111 =	78 x 111 =

- 7. What patterns do you notice in the answers?
- 8. Predict these products:
- $32 \times 111 = ____$ $41 \times 111 = ____$ $53 \times 111 = ____$ $90 \times 111 = ___$ $98 \times 111 = ___$ 98 your calculator to find the products: $32 \times 111 = ___$ $41 \times 111 = __$
 - 41 x 111 = _____
 - 53 x 111 = _____
 - 90 x 111 = _____
 - 98 x 111 = _____

Explain why your predictions were or were not accurate.

10. What happens when you multiply 111 by any two-digit number with a digit sum less than 10? Write a generalization that explains the pattern.

. Com	plete each o	comput	ation:			
2	24 x 1111 =		_			
2	26 x 1111 =		_			
3	34 x 1111 =		-			
3	36 x 1111 =		-			
5	54 x 1111 =		-			
5	58 x 1111 =		-			
. Prec	lict these pro	oducts:				
1	4 x 1111 =		_			
4	4 x 1111 =		-			
6	53 x 1111 =		-			
6	51 x 1111 =		-			
8	34 x 1111 = _		_			
. Use	your calcula	tor to f	nd the pro	ducts:		
1	4 x 1111 =		-			
4	4 x 1111 =		-			
6	53 x 1111 = _		-			
6	51 x 1111 = .		-			
8	34 x 1111 =		-			
Expl	ain why you	ır predi	tions were	or were n	ot accurate.	

15. What happens when you multiply any two-digit number by 1111? Write a generalization that explains the pattern.

16. Predict these products:

63 x 111	=	65 x 11111	=
63 x 1111	=	66 x 111	=
63 x 11111	=	66 x 1111	=
64 x 111	=	66 x 11111	=
64 x 1111	=	67 x 111	=
64 x 11111	=	67 x 1111	=
65 x 111	=	67 x 11111	=
65 x 1111	=		

17. Use your calculator to find the products:

63 x 111	=	65 x 11111 =
63 x 1111	=	66 x 111 =
63 x 11111	=	66 x 1111 =
64 x 111	=	66 x 11111 =
64 x 1111	=	67 x 111 =
64 x 11111	=	67 x 1111 =
65 x 111	=	67 x 11111 =
65 x 1111	=	

18. Describe any patterns you notice.