

Name

Date



## PRIME FACTORIZATION SHEET 3

Fill in the missing numbers in these prime factorizations. The first one is done for you.

1)	$2^2 \times 3$	=	$2 \times 2 \times 3$	=	12
2)	$3^2 \times 5$	=	$3 \times 3 \times 5$	=	
3)		=	$2 \times 2 \times 2 \times 5$	=	
4)	$3^2 \times 7$	=		=	
5)	$2^3 \times 3$	=		=	
6)		=		=	42
7)		=		=	56
8)		=	$2 \times 3 \times 3 \times 5$	=	
9)	$2 \times 7^2$	=		=	
10)	$5^3$	=		=	
11)		=	$2 \times 3 \times 5 \times 5$	=	
12)		=	$2 \times 2 \times 2 \times 3 \times 3$	=	
13)	$2 \times 3^3$	=		=	
14)	$3 \times 5^2$	=		=	
15)		=		=	48
16)		=		=	225
17)		=		=	99
18)	$2^4 \times 3^2$	=		=	
19)		=	$2 \times 3 \times 3 \times 7$	=	
20)		=		=	128

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## PRIME FACTORIZATION SHEET 3 ANSWERS

1)	$2^2 \times 3 =$	$2 \times 2 \times 3 =$	12
2)	$3^2 \times 5 =$	$3 \times 3 \times 5 =$	45
3)	$2^3 \times 5 =$	$2 \times 2 \times 2 \times 5 =$	40
4)	$3^2 \times 7 =$	$3 \times 3 \times 7 =$	63
5)	$2^3 \times 3 =$	$2 \times 2 \times 2 \times 3 =$	24
6)	$2 \times 3 \times 7 =$	$2 \times 3 \times 7 =$	42
7)	$2^3 \times 7 =$	$2 \times 2 \times 2 \times 7 =$	56
8)	$2 \times 3^2 \times 5 =$	$2 \times 3 \times 3 \times 5 =$	90
9)	$2 \times 7^2 =$	$2 \times 7 \times 7 =$	98
10)	$5^3 =$	$5 \times 5 \times 5 =$	125
11)	$2 \times 3 \times 5^2 =$	$2 \times 3 \times 5 \times 5 =$	150
12)	$2^3 \times 3^2 =$	$2 \times 2 \times 2 \times 3 \times 3 =$	72
13)	$2 \times 3^3 =$	$2 \times 3 \times 3 \times 3 =$	54
14)	$3 \times 5^2 =$	$3 \times 5 \times 5 =$	75
15)	$2^4 \times 3 =$	$2 \times 2 \times 2 \times 2 \times 3 =$	48
16)	$3^2 \times 5^2 =$	$3 \times 3 \times 5 \times 5 =$	225
17)	$3^2 \times 11 =$	$3 \times 3 \times 11 =$	99
18)	$2^4 \times 3^2 =$	$2 \times 2 \times 2 \times 2 \times 3 \times 3 =$	144
19)	$2 \times 3^2 \times 7 =$	$2 \times 3 \times 3 \times 7 =$	126
20)	$2^7 =$	$2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 =$	128