

Factors and Primes Practice

What term could be used to describe the numbers in each problem listed below? Explain your answer.

(1) 2×15 , 1×30 , 5×6 , 3×10

(2)

40:	1	2	4	5	8	10	20	40
24:	1	2	3	4	6	8	12	24

What term could be used to describe the shaded numbers in the table? Explain your answer.

(3)

2	3	4	5	6	7	8	9	10	11	12	13	14
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What term could be used to describe the numbers in the table that are not shaded? Explain your answer.

(4)

2	3	4	5	6	7	8	9	10	11	12	13	14
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For each composite number, write the word “composite”. For each prime number, write the word “prime”.

(5) 29

(6) 13

(7) 12

(8) 26

Factors and Primes Practice

Make a list to find all the factors of each number. Then underline all the factors that are prime for each number.

(9) 45:

(10) 91:

(11) 28:

(12) 54:

List all the factors of each number and then find the common factors.

(13) 35 and 24

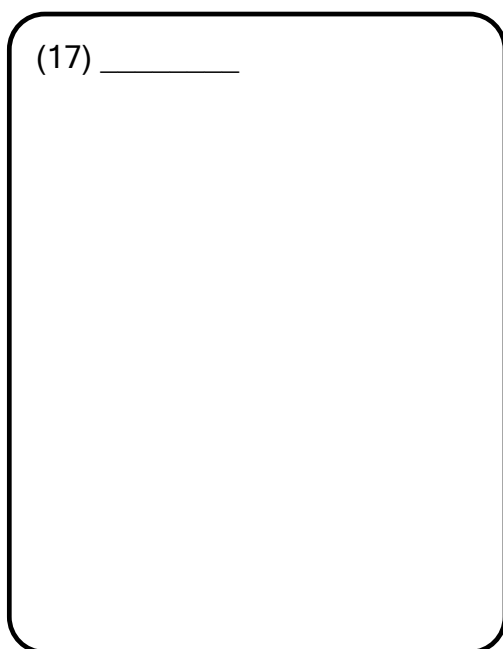
(14) 10, 25 and 100

(15) 12, 35, and 42

(16) 15, 21, 24, 60

Select and write a prime number greater than 10 in the spaces provided below. Draw a picture and explain how you know each number you have chosen is prime.

(17) _____



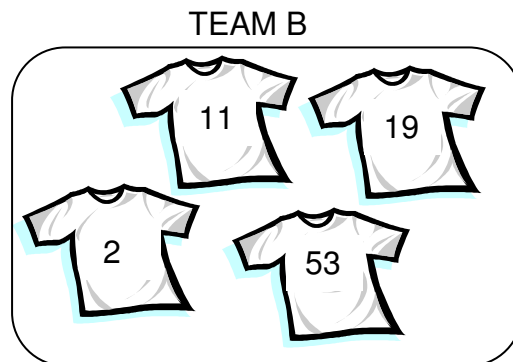
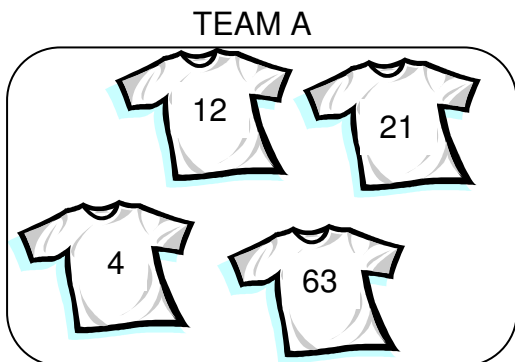
(18) _____



Prime Problem Solving

Solve. Explain your answers.

- (1) Corey's jersey number is a prime number that is also an even number. What number is on Corey's jersey?
- (2) Pedro's classroom number is the least 2-digit prime number that has all prime numbers for digits. What is Pedro's classroom number?
- (3) Meredith's street address is a composite number less than 10 that can be formed by multiplying 2 different prime numbers. What is Meredith's street address?
- (4) The sum of my ones digit and tens digit is 10. My tens digit is less than my ones digit and both my digits are prime. I am a prime number. What number am I?
- (5) I am a number between 70 and 100. My ones digit is 1 more than my tens digit. I am a prime number. What number am I?
- (6) Below are the t-shirts of two teams:



How would you describe the numbers chosen for TEAM A? TEAM B?