

# Assessment Task

## TI-15 Explorer™: Prime Factors

AT

Name: \_\_\_\_\_

1. Circle any numbers that are **NOT** prime numbers and explain why each is NOT a prime number:

1, 7, 4, 15, 23, 6.5, 133

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2. Write 2.2.3.3.3.3 in index or exponent form.

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3. Write  $3^5 \times 7^2$  in expanded form and find the number it represents. Use your calculator.

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4. Explain why  $4 \times 3^2$  is not a prime factorisation for 36.

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5. Using the calculator, or otherwise, work out a prime factorisation for 30 and 180.

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6. How many factors does 24 have? Find another number with the same number of factors as 24.

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