



Student Book

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Composite Numbers

DATE:

Using the Rules of Divisibility

Last digit is divisible by 2.

The sum of the digits is

The last 2 digits make a

number that is divisible by 4.

The number is divisible by 2

number the is divisible by 8.

gits make a

he digits is

Number and place value Identify and describe properties of prime, composite, square and triangular numbers

divisible by 3.

and 3.

The sum of

1 Explore each of the rules of divisibility with the examples below. Circle the

Numbers

720

7861

1058

196

459

156

179

48

3616 1709

1169 1872

numbers that are divisible by the number in the first column.

DATE:

456

1079

4462

3 2 8 4

44826

1 Cross out the prime numbers.

11 17 19 30 27

2 Create factor trees for each of the composite numbers above.

3 Draw factor trees for each number.





2 Use the rules of divisibility to find the prime factors of each number.



889

4567

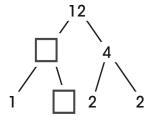
33980

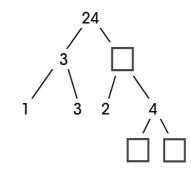
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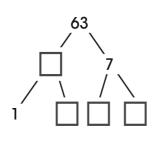
11 284

48 935 110 872

4 Fill in the gaps in the factor trees.







Extension: On another sheet of paper, draw factor trees for each of these numbers.

96

144

160

216

250



Divisible by

2

3

4

b 167 _____

c 872 _____

d 1042 _____

e 3846 _____

Composite Numbers (TRB pp. 44-47)

root. One has been done.

DATE:

STUDENT ASSESSMENT

1 Draw factor trees for each number.

2 Using the triangle as a guide, list the first ten triangular numbers.

1 Circle the square numbers. Underneath each square number, write its square

3



3 Does this triangle still show triangular numbers?



Extension: On another sheet of paper, make your own number pattern based on a shape. For example, diamond numbers or hexagonal numbers.

d 156 3 What is a composite number? Give two examples: **a** ______ **b** _____

Give the prime factors of your composite numbers from Question 3.

5 Is 100 a square number? Explain.

6 Is 100 a triangular number? Explain. _____

Number and place value Identify and describe properties of prime, composite, square and triangular numbers

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