

1.	Write each date using words and num	bers. Sample Answers
	a) 2001 09 08 September 8th, 2001	b) 1989 12 11 December 11th, 1989
	c) 2009 10 02 October 2nd, 2009	d) 2004 04 03 April 3rd, 2004
2.	Use words and numbers to record the Then write each date in metric notatio Sample Answers	date of birth of 2 classmates. m.
	a) March 27th, 1998; 1998 03 27	
	b) August 3rd, 1997; 1997 08 03	
	Write each date in metric notation. a) the seventh day of last month	Sample Answers 2007 11 07
	b) the first day of this year	2007 01 01
	c) the date of your fifth birthday	2002 05 15
	d) the last day of next month	2008 01 31
	e) the day after April 19th, 2008	2008 04 20
	or the day after April 19th, 2008	
	f) the day before June 1st, 1987	<u> 1987 05 31 </u>

Stretch Your Thinking

Benito turned 10 on the 3rd day of the 11th month of 2005. Write this date in as many ways as you can.

November 3rd, 2005; 2005 11 03; 11 03 05; 03 11 05



1. Write each time two different ways.

Sample Answers



b)

d)

- 2. Write each time in a different way.
 - a) 2:00 <u>2 o'clock</u>
 - c) 8:30 <u>half past 8</u>

3:30

half past 3

Sample Answers

7:45

quarter to 8

quarter after 99:15twelve forty-five12:45

C)

56

a)

Practice

 Read the time on each analog clock. Write the same time on the digital clock.



2. Write each time in a different way.

- a) quarter after 12 <u>12:15</u>
- **c)** nine oʻclock **<u>9:00</u>**
- e) 7:15 <u>quarter after 7</u>
- g) six forty-five <u>6:45</u>

Sample Answers

- b) 7:45 <u>quarter to 8</u>
- d) three thirty half past 3
- f) half past one <u>1:30</u>
- h) quarter to four <u>3:45</u>

Stretch Your Thinking

Millie started baking at 3:45. She finished at 5:00. How long did Millie spend baking? Explain how you know.

From 3:45 to 4:00 is 15 minutes.

From 4:00 to 5:00 is 1 hour.

So, Millie baked for 1 hour and 15 minutes.



Telling Time



Try These

1. Write the time shown on each analog clock.





4. What is another way you could write twenty-five to seven?

6:35

Stretch Your Thinking

Lester left the library at 20 minutes before 5:00. Show the time on the digital clock.





Elapsed Time

Quick Review

The amount of time from the start to the end of an activity is the **elapsed time**.

Oscar practised on his drums from 2:30 р.м. to 3:05 р.м.

To find the elapsed time in minutes, count on by 5s.

Oscar practised for 35 minutes.



Try These

Use a clock to help you.

- 1. Find each elapsed time. Write the answer in minutes.
 - a) 2:40 P.M. to 2:55 P.M. 15 minutes
 - b) 6:05 A.M. to 6:40 A.M. <u>35 minutes</u>
 - c) 7:55 P.M. to 8:35 P.M. 40 minutes
 - d) 11:45 A.M. to 12:25 P.M. 40 minutes
- 2. Tell what time it will be 25 minutes later.
 - a) It's 4:30 p.m. <u>4:55 p.m.</u> b) It's 1:25 p.m. <u>1:50 p.m.</u>
 - c) It's 8:20 A.M. <u>8:45 A.M.</u> d) It's 5:15 A.M. <u>5:40 A.M.</u>





Telling Time to the Minute

Quick Review

When the minute hand moves from one mark on the clock to the next mark, it takes 1 minute of time.



Try These

1. Write the time shown on each clock.



2. Show the time on each clock.







The 24-Hour Clock

Quick Review

This is a 24-h clock. There are 24 h in one day. From midnight to noon, the hours are from 0 to 12. From 1 P.M. to midnight, the hours are from 13 to 24.

When we use the 24-h clock, we use 4 digits to write the time.

10:15 A.M. is written 10:15.

6:30 A.M. is written 06:30.

6:30 P.M. is written 18:30.







Try These

1. Write each time using a 24-h clock.

a) 8:10 A.M. 08:10 b) 12:00 noon 12:00 c) 10:20 P.M. 22:20

2. Write each time using A.M. or P.M.



Practice

1. Write each time using a 24-h clock. Assume it is past noon.



Stretch Your Thinking

Amanjeet left Winnipeg, MB, at 16:55 on Oct. 26. When she arrived in Edmonton, AB, her watch showed 08:05, Oct. 27. How long was the trip? <u>16 h 10 min</u>



Try These

- **1.** a) Use yellow Pattern Blocks to find the area of this shape. Record the area in the table.
 - b) Repeat using red, blue, and green Pattern Blocks.

Unit	Area in Pattern Blocks
Yellow Pattern Block	3
Red Pattern Block	6
Blue Pattern Block	9
Green Pattern Block	18

Practice 1. a) Estimate the area of the hexagon in red Pattern Blocks. Then find the area in red Pattern Blocks and record it in the table. b) Repeat the activity with blue and green Pattern Blocks. Estimates are **Sample Answers** Pattern Area in Estimate Pattern Block Unit Blocks red 10 8 blue 14 12 green 30 24 **2.** Use this grid. Sample Answer Draw a shape with area 3 red Pattern Blocks. ł **Stretch Your Thinking** Suppose a shape has an area of 5 yellow Pattern Blocks. What is its area in red Pattern Blocks? ____10_____ In blue Pattern Blocks? ____15



Exploring Area

Quick Review

To find the area of a shape, count the number of square units needed to cover it.

The area of this shape is 5 square units.

To find the area of a rectangle, you can count the number of square units or you can multiply. There are 2 rows of 5 squares. $2 \times 5 = 10$ The area of this rectangle is 10 square units.



Try These

1. Find the area of each shape in square units. a) b) C)

8 square units



2. Write a multiplication fact to find the area of each rectangle.



Practice)

1. Play this game with a partner.

You will need:

2 number cubes 2 pencil crayons of different colours

Take turns:

- Roll the cubes. Add the numbers to get an area in square units.
- Colour a shape with that area on the grid.

No shape can overlap another shape.

► If there is no room left for your shape, you lose your turn.

Continue until there is no more room on the grid.



Stretch Your Thinking

Find the total area you coloured on the grid. Then find the total area your partner coloured. Who coloured the greater area?

Sample Answer: The total area coloured was 180 square units.

My area was 80 square units, and my partner's area was 100 square units.

My partner coloured the greater area.



Measuring Area in Square Centimetres

Quick Review

Each side of every square on this grid paper is 1 cm long.

Every square has an area of one square centimetre (1 cm²).



You can use square centimetres to measure area.



The area of this shape is 3 cm².

Try These

1. Find the area of each rectangle in square centimetres.



 Practice

 1. Write the area inside each shape in square centimetres.

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2. Draw three different rectangles with area 12 cm².

Stretch Your Thinking

The area of a square is 25 cm². What are its length and width?

<u>Length 5 cm, width 5 cm</u>



Estimating and Measuring Area

Quick Review

This is one way to find the approximate area of a triangle.

- Count each whole square. There are 8 whole squares.
- Count each half square.
 There are 4 half squares.
 This equals 2 whole squares.
- Count each part greater than ¹/₂ a square as 1 square. There are 2 parts
 - greater than $\frac{1}{2}$ a square.

lgnore each part less than $\frac{1}{2}$ a square.

Add to find the total number of squares: 8 + 2 + 2 = 12

Try These

1. Find the approximate area of each polygon.



Area = about <u>9 cm²</u>



Х

Х

Х

Х

Х

This triangle has an area

of about 12 cm².

X

*

Х

Х

*

Area = about 10 cm²

Practice

1. Draw a large clown's head on the grid. Use as many different polygons as you can. Find the approximate area of each part of the head.



Sample Answers

	Nees					
	Nose	Mouth	One Eye	Whole Head		
Approximate Area	8 cm ²	б cm²	2 cm ²	136 cm ²		
				1 12		

Stretch Your Thinking

Explain how you would find the approximate area of a leaf.

Sample Answer: Lay the leaf on grid paper and trace around it. Then count the number of whole, half, and part squares. Add to get the area.



Finding Area in Square Metres



Try These

1. Find the area of each garden. Each square has an area of 1 m².



- 2. Put the rectangles in question 1 in order from least to greatest area.
 - <u>c, b, a</u>

Practice

- Here are the dimensions of each of Sheila's rectangular gardens. Model each of the gardens on the grid.
 - Find the area of each garden.
 - On each model, record the area and the type of flowers.

Sheila's G	iardens
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Flowers	Width	Length
Roses	7 m	3 m
Wildflowers	5 m	4 m
Pansies	1 m	8 m
Petunias	6 m	4 m
Daisies	10 m	2 m

Sample Answers



Stretch Your Thinking

Sheila has a rectangular pumpkin patch with area 36 m². The patch is 4 m wide. How long is it?

9 m long



Practice

1. Work with a partner.

Draw a rectangle on the grid. Record the area on the rectangle. Your partner draws a different rectangle with the same area, and records the area.

Switch roles and repeat. Continue the game until the grid is full.

Sample Answers



Stretch Your Thinking

Draw two rectangles on the grid, each with an area of 1 cm².

