

Longest to shortest

Estimate, then measure, the length of each piece of food using paperclips like this one.



2 Draw the foods above, in order, from longest to shortest.



Using Units of Measurement

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Measure the creatures

Use the same sized counter to trace around each time.

Using counters to measure, draw: Answers will vary.

A spider that is I counter long.

A dragonfly that is 4 counters long.

A caterpillar that is \boldsymbol{b} counters long.

Remember that your counters must be just touching each other and not overlapping.

Which is the longest creature? ____

Which is the shortest creature? _

2 The caterpillar is \boldsymbol{b} counters long. Estimate, then measure, how many of these units you need to measure its length.

Unit of measurement	Estimate	Actual	
Base 10 shorts			
Unifix blocks			

Why do you need more Base 10 units than counters to measure the caterpillar? What does this tell you?

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Measure distances

Use Base 10 units to measure the distance between the flower and each bug. Write the number of units.



3 If all the bugs travel at the same speed, draw them in the order they would reach the flower.



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Measuring with shoes

Measure the length of these objects using your shoe.



Using Units of Measurement

Measure the distance between two points in your classroom using popsticks. Answers will vary.



2 Order the distances you measured from the shortest to the longest distance.

	Distance between	Length
Shortest _	and	popsticks
-	and	popsticks
Longest _	and	popsticks

3 Find the total distance from the door to the teacher's desk, stopping at the computer and the board on the way.

The total distance is _____ popsticks.

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Comparing area



Would you use more cards or less cards to measure

a computer screen? <u>Answers will vary.</u>

Why?



Beach cover up



Trace this shape onto a piece of paper and cut around it. Find objects in the picture with about the same area as this shape. Colour them in.

*



If you measured the real objects, would they have the same area as the rectangle?



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By counting the number of squares. More squares = greater surface area.

2 Draw lines to match the shapes with the same area.

 Image: state of all the shapes in Question 2?
 State of all the shapes of all the shape

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Circle the frame with the largest area.

Colour 2 frames with the same area.

2 Make and draw two different rectangles with areas of 12 Base 10 units. Answers will vary.

3

лiВ

66

car

Joel has started to measure the area of this photo frame. How many tiles will he need to measure its area?



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Using Units of Measurement

Estimate and measure areas

Estimate the area of each object below and then use identical square pattern blocks to measure them.





2 Place the three objects in order from smallest area to largest area.







Find an object or surface in the room with an area larger than a teatowel but smaller than a big book.

Covering surfaces



How many of each unit below will cover the area of the surface you have chosen? Estimate first. Answers will vary.



Why did you need more Unifix cubes than maths books to cover the surface?

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ISBN: 978-0-521-74529-1 © Michelle Weeks 2012 Photocopying is restricted under law and this material must not be transferred to another party. Taking up space

Count and record the number of blocks used to build each model. Circle the models that take up the same amount of space.





This block wall has a volume of 4 blocks.

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This model has a volume of $m{8}$ cubes.



Draw a different model with a volume of ${\it 8}$ cubes.

Compare your model with a friend's. How are they different? Discuss how you know that they have the same volume even though they look different.

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Filling containers

Put one cube into each container and estimate how many cubes will be needed to fill the container. Check by filling the containers. Answers will vary.

~



2 Order the containers from the one that holds the least (1) to the one that holds the most (4).



1

2

Yuri filled a cup with water and then poured the cup of water into an empty bucket.



The <u>bucket</u> holds more.

The <u>up</u> holds less.

Jenny filled a jug with water and poured it into the same empty bucket.



The <u>bucket</u> holds more.

The jug holds less.

Complete these statements.

The bucket holds <u>more</u> than the jug.

The cup holds <u>less</u> than the bucket.

more less

The jug holds <u>more</u> than the cup.

3 Draw the jug, bucket and cup in order from largest to smallest volume.

Estimate how many glasses of water would fill the bucket.



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How many cups?

- Follow these instructions to make a measuring container.
 - Choose a clear container.
 - b Fill a cup with water and empty it into the container.
 - C Mark the water level on the side of the container.
 - d Repeat until the container is full.

Draw the container and the marks made at each level.

Repeat with a different container. Answers will vary.



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Animal masses



2 Draw a dog or elephant in each space on the seesaws below.



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Find an object that will balance all of these items if they are placed together on one side of the equal arm balance.

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Balancing objects

How many longs balance these objects? Estimate first.



Order the objects from lightest to heaviest.

calculator ruler dictionary Fill in the blanks. Β Α The frog is heavier than $_4$ balls. The frog is the same mass as \underline{b} balls. The frog is lighter than $\underline{8}$ balls. What would happen if 4 balls were taken off Balance C? The frog will be heavier.

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Which month has a different number of days to

the others? <u>February</u>

- Follow the instructions so that each child reaches the months for their season.
 - α

Have Winter follow the winter path by colouring the winter things blue.

- b Have Summer follow the summer path by colouring the summer things yellow.
- Have Spring follow the spring path by colouring the spring things green.
- d Have Autumn follow the autumn path by colouring the autumn things red.



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Calendar work



What is missing? Check the days of the week and the dates.

				June					
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
	1	2	3	4	5	6	7		
	8	9	10		12	13	4		
	15	16	17	18	19	20	21		
	22	23	24	25	26	27	28		
	29	30							
 a Fill in the missing parts of the calendar. b What month is this calendar showing?									
2 On what days of the week are these dates?									
7 June <u>Sunday</u> 13 June <u>Saturday</u>									
22 June <u>Monday</u> 30 June <u>Tuesday</u>									
Colour the first day of June blue . What day is it? <u>Monday</u>									
Colour the last day of June red . What day is it? <u>Tuesday</u>									
Which month would come next in the calendar? <u>July</u>									
3 Colour all the Friday dates green. List the dates that fall on a Friday. 5^{th} 12 th 19 th 26 th What pattern can you see in the dates that fall on a Friday? Would the pattern be the same if you looked at the dates on a Tuesday? Why									
does this pattern occur?									
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O'clock/half-past



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 $\hat{\mathbf{x}}$

Telling the time

Draw hands on the clockfaces to show each time.



Colour red the clock showing the most likely time you eat breakfast.

2 Match each clockface with the digital time and the most likely activity you would do at that time.



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