| Undefined Term: | Mathematical Model: | Real-World Model: | Naming Conventions: |
|-----------------|----------------------------------|---|--|
| Point | | A tiny seed is a physical model of a point. A point, however, is smaller than any seed that ever existed. | Points are named using Capital letters (i.e. point P). |
| Line | B | A piece of spaghetti is a physical model of a line, A line, however, is longer, straighter, and thinner than any piece of spaghetti ever made. | Lines are named using two points on the line in either order with a line over the top (i.e. \overrightarrow{AB} or \overrightarrow{BA}). |
| Plane | <i>D</i> . <i>F</i> . <i>E</i> . | A plane Janding on a Plane | Planes are named using a single upperCase sCript letter or three points in the plane (i.e. plane \mathcal{P} or plane DEF). |

3 Undefined Building Blocks of Geometry

Mini-Definition:

| | | PICTURE MODEL: |
|-------------|--|----------------|
| Endpoints E | Endpoints are the points at which an object starts or ends. | B |
| | | Endpoints |

| Collinear | Collinear means on the same line. | A B C Points A. B. and C are collinear. |
|-----------|--------------------------------------|---|
| Coplanar | Coplanar means on the same plane. | P_{\bullet} F_{\bullet} F_{\bullet} Points <i>D</i> , <i>E</i> , and <i>F</i> are coplanar. |





Lesson 1.1 • Building Blocks of Geometry

| Name | Period | Date | |
|--|--|---|-------------------------------|
| For Exercises 1–7, complete each statement. PS | = 3 cm. | N T S | |
| 1. The midpoint of PQ is | NE KNOW HISY | c PS = 50. | |
| 2. NQ = <u>9 CM</u> . The absence of | a line over NU+ | eus us we are l | lung asked for l |
| 3. Another name for NS isSN | - Line segments | are named with | - the endpoin |
| 4. S is the endpoint of SQ. | IN ELAMOUR OR | der. | |
| 5. P is the midpoint of NS or SN | | | |
| 6. $\overline{NS} \approx \overline{PQ}$ | | | |
| 7. Another name for SN is | The endpoint (| f the ray m | ust always |
| 8. Name all pairs of congruent segments in K congruence symbol to write your answer. KN ≅ KL KO ≅ OL | LMN. Use the rU | nai i the San | NL. |
| M(−4, 8) is the midpoint of DE. D has concordinates of E. | ordinates (6, 1). Find | the \sum_{l} | 8 cm |
| For Exercises 10 and 11, use a ruler to draw each figure and mark the congruent parts. | ch figure. Label the | | |
| 10. \overline{AB} and \overline{CD} with M as the midpoint of both \overline{AB} and \overline{CD} . $AB = 6.4$ cm and $CD = 4.0$ cm. A , B , and C are not collinear. | 11. \overrightarrow{AB} and \overrightarrow{CD} . AC = 1.5 cn midpoint of | C is the midpoin n. D, not on \overrightarrow{AB} , i \overrightarrow{AE} , with $AD = 2$ | t of AB, with s the BC. |
| La | | D 34 | |
| 3.2 cm 1 3.2 cm | 3 cm | 1 | |
| 1.Sur | | | |
| K | A , SUN C , | sum b | |
| Sketch six points A, B, C, D, E, and F, no three of which are collinear. Name the line | 13. In the figure | e below, {B, C, H, | E) is a set of |
| defined by these points. How many lines | of four copl | anar points. How | many sets of |
| are there? | four coplana | ar points are there | 3 |
| B AB HC HD HE HT | 12 50.5 | - 2C, D | 14,62 |
| . C C DD SE OF | A | D ZAB | G \$3 |
| | 1 | ZA, | D, H, ES |
| D DE DE | | ZA,B | FIES |
| 15 lines | ZF, E, P, | LE EFE | HIGE |
| Discovering Geometry Practice Your Skills | 2A, 8, 61 | 16 500 | DELE |
| awaya istemu unic cating util | | 271 | 1101 |

F.