Table of Contents

Introduction

NCTM Standards (National Council of Teachers of Mathematics)
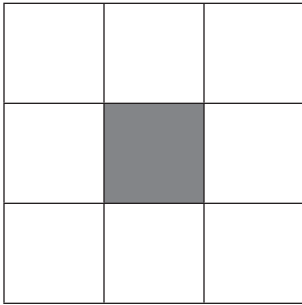
Number and Operations	10, 24, 27, 33, 39, 40, 41, 42, 54, 59, 66, 81 ,87, 88, 92, 93, 96, 104, 109, 110, 111, 113, 116, 122, 123, 126,127, 133, 134, 145, 146, 147, 149, 150, 157, 175, 176, 184, 195, 196, 200
Algebra	3, 4, 8, 11, 16, 18, 20, 22, 28, 31, 47, 51, 53, 61, 63, 65, 70, 71, 73, 74, 85, 89, 91, 94, 97, 99, 101, 106, 112, 114, 118, 120, 128, 139, 140, 148, 151, 154, 155, 162, 169, 172, 179, 181, 192, 199
Geometry	1, 13, 14, 17, 23, 26, 32, 36, 43, 48, 52, 62, 72, 76, 80, 95, 100, 105, 108, 121, 125, 129, 136, 137, 143, 156, 158, 161, 168, 180, 183, 187, 188, 189, 191, 197
Measurement	2, 5, 6, 9, 12, 29, 34, 37, 46, 49, 50, 55, 57, 60, 69, 79, 83, 86, 98, 102, 103, 117, 124, 131, 141, 152, 153, 160, 163, 164, 166, 174, 177, 185, 186, 193
Data Analysis and Probability	7, 15, 19, 21, 25, 30, 35, 38, 44, 45, 56, 58, 64, 67, 68, 75, 77, 78, 82, 84, 90, 107, 115, 119, 130, 132, 135, 138, 142, 144, 159, 165, 167, 170, 171, 173, 178, 182, 190, 194, 198

Complete Each Math Analogy

29)

fraction of outer square
that is shaded
: $\dfrac{1}{9}$ ::
fraction of outer square
that is shaded
:

30)

miles traveled / hours (graph A, B, C)
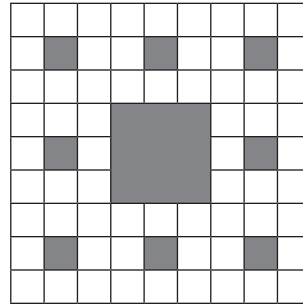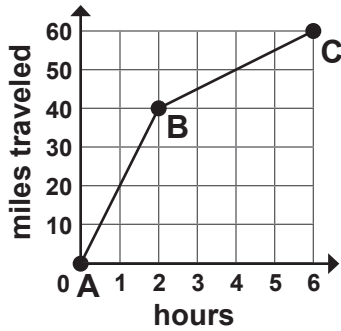
- speed from A to B is 20 mi/hr
- speed from B to C is 5 mi/hr

:: miles traveled / hours (graph A, B, C) :

31)

$$A = \pi r^2 \quad : \quad r = \sqrt{\dfrac{A}{\pi}} \quad :: \quad S = 6L^2 \quad :$$

32)
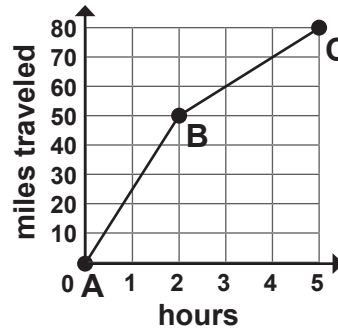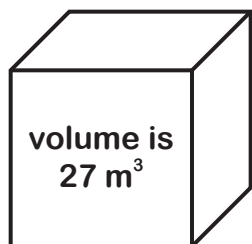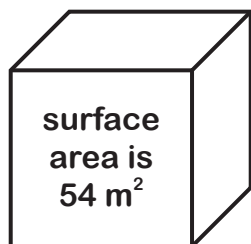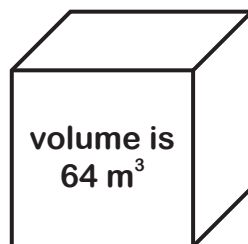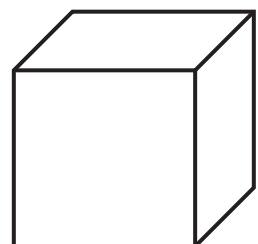
volume is
27 m^3
cube
: surface
area is
54 m^2
cube
:: volume is
64 m^3
cube
: cube

Complete Each Math Analogy

129) angle between the hands of the clock

12
9 ？ 3
6
6:20
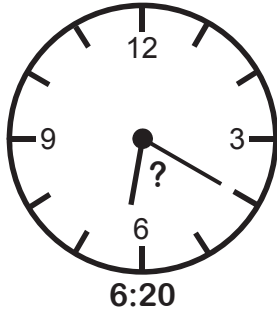
: **70°** ::

angle between the hands of the clock

12
？
9 3
6
11:40

: ___ :
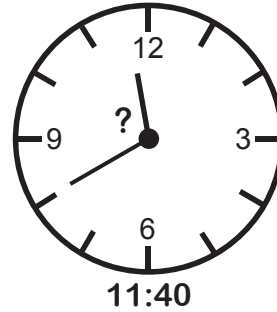
130)

# of cookies in jar	total weight of jar plus cookies
15	430 g
20	490 g

: empty jar weighs 250 grams ::

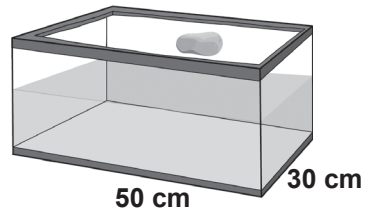| # of marbles in jar	total weight of jar plus marbles
30	370 g
50	470 g

: ___ :

131)

water level rises by 3 cm when fish is submerged

20 cm
40 cm
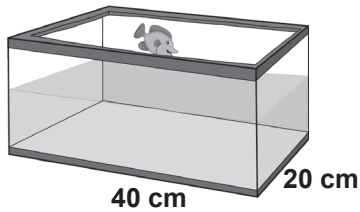
: fish volume is 2,400 cm^3 ::

water level rises by 4 cm when rock is submerged

30 cm
50 cm

: ___ :

132)

cab ride for $3 plus 35¢ per quarter mile

cab trip
cab trip costs $13.15

: cab trip is $7\frac{1}{4}$ miles ::

cab ride for $4 plus 45¢ per quarter mile

cab trip
cab trip costs $26.95

: ___ :