Lesson 3.1: Introduction to Radicals



Explore Your Understanding Assignment

This assignment includes multiple choice questions. For multiple choice questions, select the best answer. Each is worth 1 mark.

Use the following list of radicals to answer question 1.

$$5\sqrt[4]{3}$$
, $\sqrt[4]{1280}$, 8 , $2\sqrt[4]{120}$, $3\sqrt[4]{40}$

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(1) 1.	The correct	order c	of radicals	from	smallest to	largest is

A.
$$\sqrt[4]{1280}$$
, $2\sqrt[4]{120}$, $3\sqrt[4]{40}$, $5\sqrt[4]{3}$, 8

B.
$$8,5\sqrt[4]{3},3\sqrt[4]{40},2\sqrt[4]{120},\sqrt[4]{1280}$$

C.
$$\sqrt[4]{1280}$$
, $5\sqrt[4]{3}$, $2\sqrt[4]{120}$, $3\sqrt[4]{40}$, 8

D.
$$\sqrt[4]{1280}$$
, $2\sqrt[4]{120}$, 8 , $5\sqrt[4]{3}$, $3\sqrt[4]{40}$

1 _____ 2. The radical that best represents the **most** simplified version of
$$\sqrt{4.032q^3}$$
, $q \ge 0$ is

A.
$$4\sqrt{252q^3}$$

B.
$$6\sqrt{112q^3}$$

C.
$$12q\sqrt{28q}$$

D.
$$24q\sqrt{7q}$$

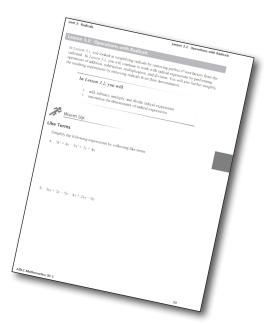
1 _____ 3. The restriction on the variable for the radical expression
$$\sqrt{8c+4}$$
 is

A.
$$c \ge -\frac{1}{2}$$

B.
$$c \ge \frac{1}{2}$$

C.
$$c \ge 2$$

You have completed *Lesson 3.1 Explore Your Understanding Assignment*. Please return to the *Module* and continue your exploration with *Lesson 3.2*.



ADLC Mathematics 20-1 7