

Preparation Assignment 3: Creative thinking - instructor solution

Select all the correct sentences about creative ideation techniques. *

- ☐ Analogizing is a form of constraint relaxation.
- ☐ Challenging implicit assumptions is a form of elaboration.
- ☒ Analogizing is a form of re-encoding.
- ☒ Challenging implicit assumptions is a form of constraint relaxation.

Match each real-life product with its most appropriate description. *

	Creative - both novel and useful	Novel, but not useful	Useful, but not novel
IBM's Simon - the first commercially available smartphone (1994) https://en.wikipedia.org/wiki/IBM_Simon	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Apple's first iPhone (2007) https://en.wikipedia.org/wiki/IPhone_(1st_g eneration)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Samsung's first Galaxy smartphone (2009) https://en.wikipedia.org/wiki/Samsung_Galaxy_(original)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Implicit assumptions about problem *

Select only the implicit assumption/s about the following problem:

Many drivers are distracted by notifications on their smartphone, a behavior that can lead to car accidents.

The list below may contain any number of correct answers, from none to all of them.

- ☒ Touching and/or looking at a smartphone while driving is dangerous.
- ☒ Many drivers have notifications turned on their smartphone while driving.
- ☐ Being distracted while driving can lead to car accidents.
- ☒ Many drivers have their smartphone facing them or next to them while driving.

Analogies to problems *

Select appropriate source problems for the following target problem:

Design a solution for round-the-clock delivery of aid and supplies to city dwellers affected by a severe earthquake.

The source problem is taken
from https://en.wikipedia.org/wiki/Bat#Anatomy_and_physiology

The list below may contain any number of correct or incorrect answers.

- X) Bat wings can change shape mid-flight to allow for sharp turns.
- X Bats use echolocation with sonar to detect obstacles and find prey even in dark spaces.
- X) Bats can use their wings to wrap around their bodies for warmth.
- X) Bats can hang upside down with no special effort due to the clenched position of their feet also being their relaxed position.

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