Patterns
Skill 4 - 10E

Problem Solving

Directions: Solve the following word problems.

Example

Larry set up 24 chairs in the first row. He placed 32 chairs in the second row. He placed 40 chairs in the third row. If this pattern is continued, how many chairs will be in the fifth row? Look for a pattern.

Answer: 56   Each row has 8 more chairs.

row	1	2	3	4	5
number of chairs each row	24	32	40	48	56

Directions: Solve the following word problems.

1. Martin is making a design for his art class. He is pasting bottle caps on paper. The first row has 6 caps. The second row has 9 caps. The third row has 12 caps. If he continues this pattern, how many caps will be on the sixth row?

2. The first day Jason painted 8 boards. The next day, he painted 16 boards. On the third day, he painted 32 boards. If he continues this pattern, how many boards will Jason paint on the fifth day?

3. Karen swam 12 laps the first day. The next day, she swam 16 laps and on the third day she swam 20 laps. If this pattern continues, how many laps will she swim on the fourth day?

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Problem Solving

Directions: Solve the following word problems.

4. Richard sells apples. He sold 20 on the first day. He sold 40 on the second day. He sold 60 on the third day. How many will he sell on the fifth day?

5. Martin ran 2 laps around the track on the first day. He ran 4 laps the next day. He ran 8 laps the third day. He ran 16 laps the fourth day. How many laps will he run on the fifth day?

6. Marissa is collecting seashells. She picked up 15 on the first day. She picked up 25 on the second day and 35 on the third day. How many will she pick up on the seventh day?

7. David bought 4 candies the first day. He bought 9 candies on the second day. He bought 14 candies on the third day. On the fourth day, he bought 19 candies. How many will he buy on the sixth day?

Answer Key
Skill 4 - 10E

1.

row	1	2	3	4	5	6	Add 3 to each row.
number in each row	6	9	12	15	18	21	The 6th row has 21 caps.

2.

day	1	2	3	4	5	He will paint 128 on the 5th day.
number painted	8	16	32	64	128	The number painted doubles each day.

3.

day	1	2	3	4	She will swim 24 laps on the 4th day.
number of laps	12	16	20	24	Add 4 laps each day.

4.

day	1	2	3	4	5	He will sell 100 apples on the 5th day.
number sold	20	40	60	80	100	He sells 20 more each day.

5.

day	1	2	3	4	5	He will run 32 laps on the 5th day.
laps ran	2	4	8	16	32	Double the previous day.

6.

day	1	2	3	4	5	6	7
seashells	15	25	35	45	55	65	75

She will pick up 75 seashells on the 7th day.
Skip count by tens.

7.

day	1	2	3	4	5	6
candies	4	9	14	19	24	29

He will buy 29 candies on the 6th day.
He buys 5 more each day.