

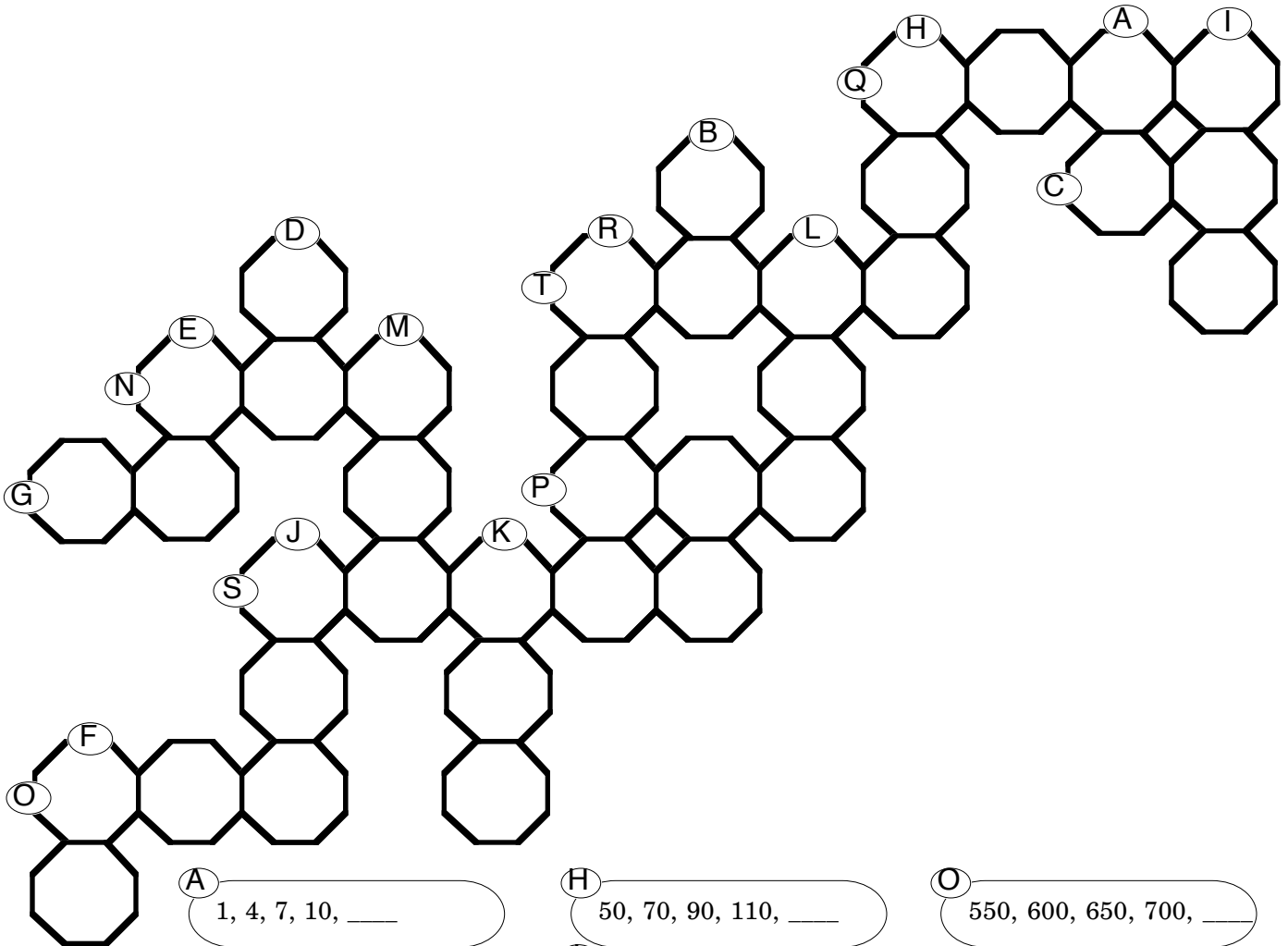
Name: _____

Date: _____

Period: _____

Pattern Puzzle

Find the last number in each pattern.



A 1, 4, 7, 10, ____

B 10, 13, 16, 19, ____

C 8, 15, 22, 29, ____

D 33, 36, 39, 42, ____

E 100, 90, 80, 70, ____

F 55, 60, 65, 70, ____

G 5, 10, 20, 40, ____

H 50, 70, 90, 110, ____

I 40, 80, 120, ____

J 20, 40, 80, 160, ____

K 666, 555, 444, ____

L 4000, 2000, 1000, ____

M 240, 360, 480, ____

N 656, 656, 656, ____

O 550, 600, 650, 700, ____

P 880, 860, 840, ____

Q 1, 11 111, ____

R 5, 20, 80, 320, ____

S 3, 30, 303, 3030, ____

T 10000, 5000, 2500, ____

Pattern Puzzle

Suggested Questions

Q: What patterns are ascending?

A: A, B, C, D, E, F, G, H, I, J, M, O, Q, R, and S

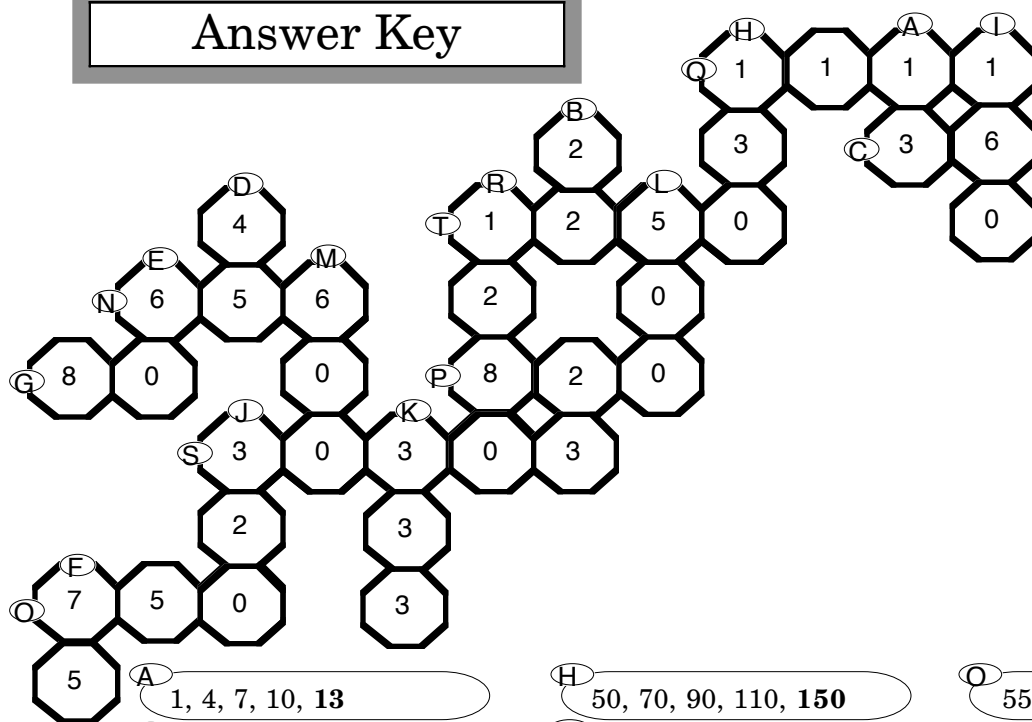
Q: What math operations are involved in ascending patterns?

A: Addition and Multiplication.

Q: What pattern is not ascending nor descending?

A: N

Answer Key



- A 1, 4, 7, 10, **13**
- B 10, 13, 16, 19, **22**
- C 8, 15, 22, 29, **36**
- D 33, 36, 39, 42, **45**
- E 100, 90, 80, 70, **60**
- F 55, 60, 65, 70, **75**
- G 5, 10, 20, 40, **80**

- H 50, 70, 90, 110, **150**
- I 40, 80, 120, **240**
- J 20, 40, 80, 160, **320**
- K 666, 555, 444, **333**
- L 4000, 2000, 1000, **500**
- M 240, 360, 480, **960**
- N 656, 656, 656, **656**

- O 550, 600, 650, 700, **750**
- P 880, 860, 840, **820**
- Q 1, 11 111, **1111**
- R 5, 20, 80, 320, **640**
- S 3, 30, 303, 3030, **30303**
- T 10000, 5000, 2500, **1250**

For additional pre-algebra activities check out my book at
www.supermathunits.com/book

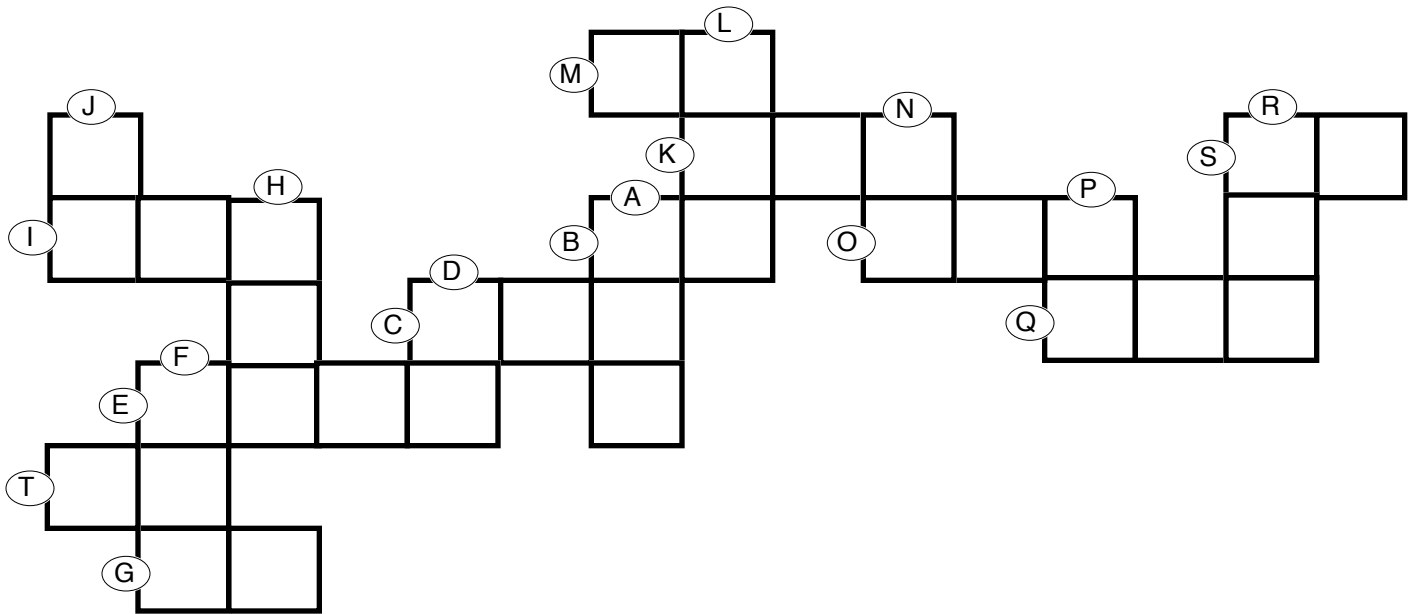
Name: _____

Date: _____

Period: _____

Pattern Puzzles

Find the first number in each pattern.



A _____, 300, 450, 600

B _____, 22, 44, 88

C _____, 804, 703, 602

D _____, 180, 270, 360

E _____, 500, 250, 125

F _____, 64, 32, 16

G _____, 85, 90, 95

H _____, 122, 124, 126

I _____, 511, 521, 531

J _____, 50, 75, 100

K _____, 331, 441, 551

L _____, 222, 323, 424

M _____, 47, 53, 59

N _____, 30, 60, 120

O _____, 607, 707, 807

P _____, 102, 133, 164

Q _____, 1000, 10000, 100000

R _____, 400, 200, 100

S _____, 89, 91, 93

T _____, 24, 36, 48

Pattern Puzzles

Suggested Questions

Q: What patterns are descending?

A: C, E, F and R

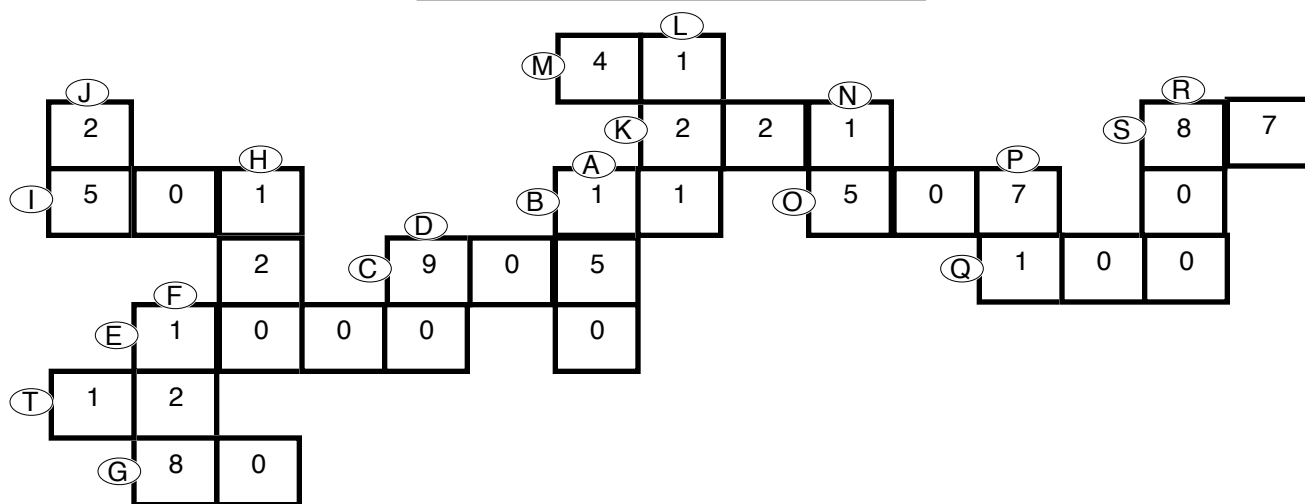
Q: What math operations are involved in ascending patterns?

A: Subtraction and Division.

Q: What do the patterns E, F and R have in common?

A: The three have the same rule: divide by two.

Answer Key



A 150, 300, 450, 600

B 11,, 22, 44, 88

C 905, 804, 703, 602

D 90, 180, 270, 360

E 1000, 500, 250, 125

F 128, 64, 32, 16

G 80, 85, 90, 95

H 120, 122, 124, 126

I 501, 511, 521, 531

J 25, 50, 75, 100

K 221, 331, 441, 551

L 121, 222, 323, 424

M 41, 47, 53, 59

N 15, 30, 60, 120

O 507, 607, 707, 807

P 71, 102, 133, 164

Q 100, 1000, 10000, 100000

R 800, 400, 200, 100

S 87, 89, 91, 93

T 12, 24, 36, 48

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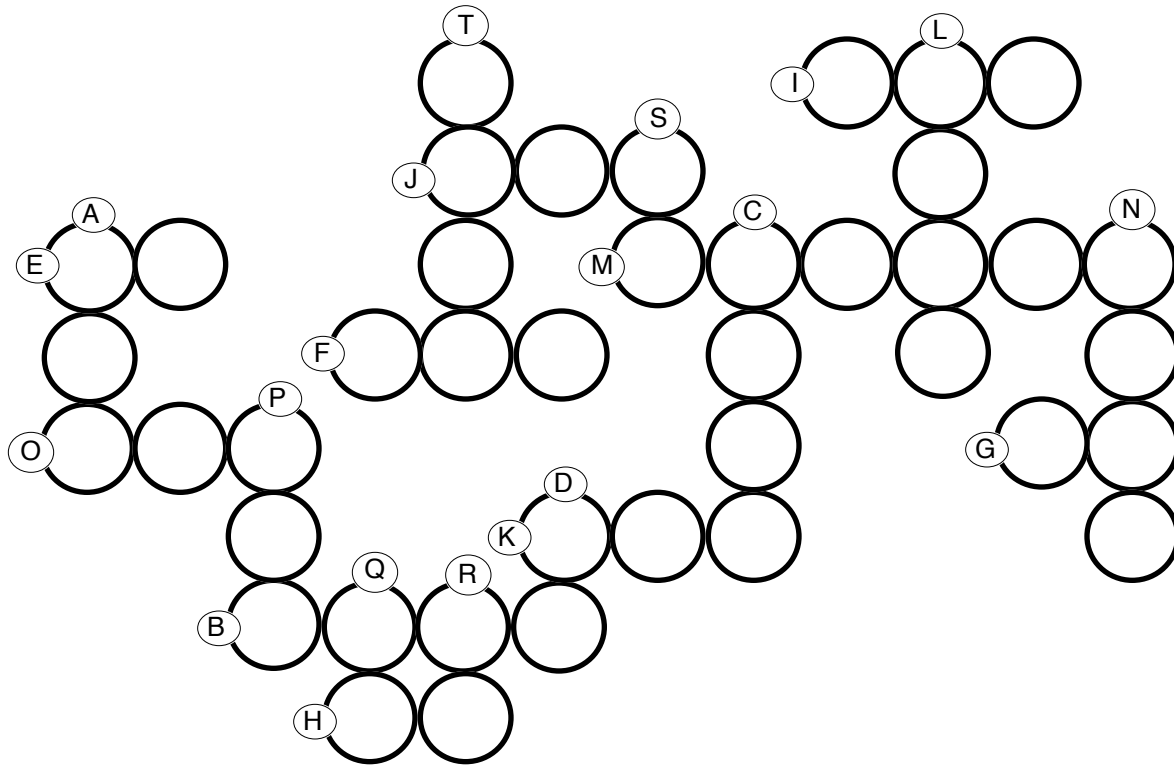
Name: _____

Date: _____

Period: _____

Pattern Puzzles

Find the missing number in each pattern.



(A) 625, 630, _____, 640, 645	(K) 60, 120, 240, 480, _____
(B) 77777, _____, 777, 77, 7	(L) 1010, 1020, _____, 1040, 1050
(C) _____, 3000, 2500, 2000, 1500	(M) 131, 1313, 13131, _____, 1313131
(D) 73, 81, 89, _____, 105	(N) 12000, 6000, _____, 1500, 750
(E) 4, 8, 16, 32, _____	(O) 431, _____, 651, 761, 871
(F) 585, _____, 425, 345, 265	(P) 157, 157, _____, 157, 157
(G) 80, 800, _____, 800, 80	(Q) 63, 68, _____, 78, 83
(H) 170, 135, 100, 65, _____	(R) _____, 140, 210, 280, 350
(I) 128, 256, _____, 1024, 2048	(S) 101, 81, 61, _____, 21
(J) 384, _____, 584, 684, 784	(T) 950, 1100, 1250, _____, 1550

Pattern Puzzles

Suggested Questions

Q: What patterns not ascending nor descending?

A: P

Q: What is the rule of the above pattern?

A: plus or minus zero

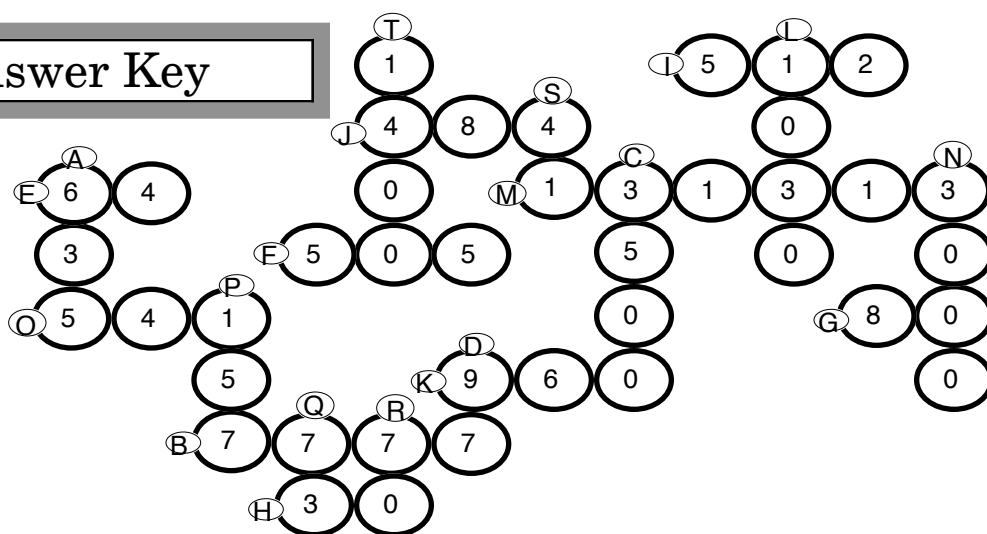
Q: What two patterns have the same rule?

A: E and I (pattern I is a continuation of pattern E)

Q: What is the rule of the above patterns?

A: Multiply by two.

Answer Key



A	625, 630, 635 , 640, 645	K	60, 120, 240, 480, 960
B	77777, 7777 , 777, 77, 7	L	1010, 1020, 1030 , 1040, 1050
C	3500 , 3000, 2500, 2000, 1500	M	131, 1313, 13131, 131313 , 1313131
D	73, 81, 89, 97 , 105	N	12000, 6000, 3000 , 1500, 750
E	4, 8, 16, 32, 64	O	431, 541 , 651, 761, 871
F	585, 505 , 425, 345, 265	P	157, 157, 157 , 157, 157
G	80, 800, 80 , 800, 80	Q	63, 68, 73 , 78, 83
H	170, 135, 100, 65, 30	R	70 , 140, 210, 280, 350
I	128, 256, 526 , 1024, 2048	S	101, 81, 61, 41 , 21
J	384, 484 , 584, 684, 784	T	950, 1100, 1250, 1400 , 1550

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