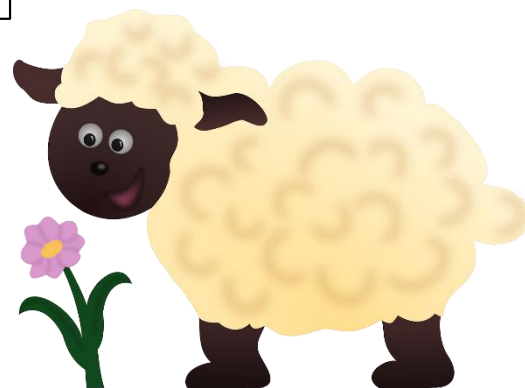


Palindrome Puzzles

From your friends at the Homeschool Buyers Co-op

Palindrome Crossword



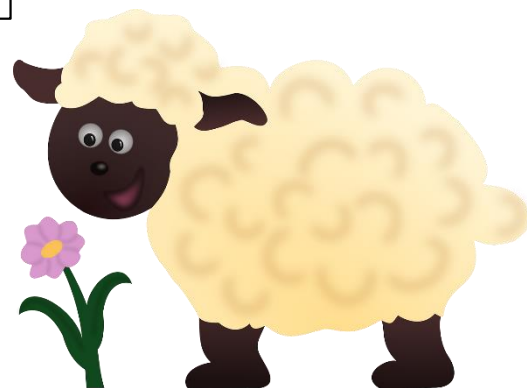
ACROSS

- 2 the middle of the day
- 3 a high-pitched sound made by a baby bird
- 5 a sound made by a whistle or horn
- 8 bring to the attention or to pass a matter onto someone
- 10 another name for father
- 12 a polite way to address a woman
- 13 short for statistics
- 15 more red
- 17 a flat, even surface
- 18 short for sister

DOWN

- 1 something that rotates
- 4 a female sheep
- 6 past tense of "do"
- 7 another name for mother
- 8 a way to detect objects using radio waves
- 9 an Inuit canoe
- 11 a legal document showing ownership of property
- 14 plural of solo
- 16 organ used for seeing

Palindrome Crossword Key



ACROSS

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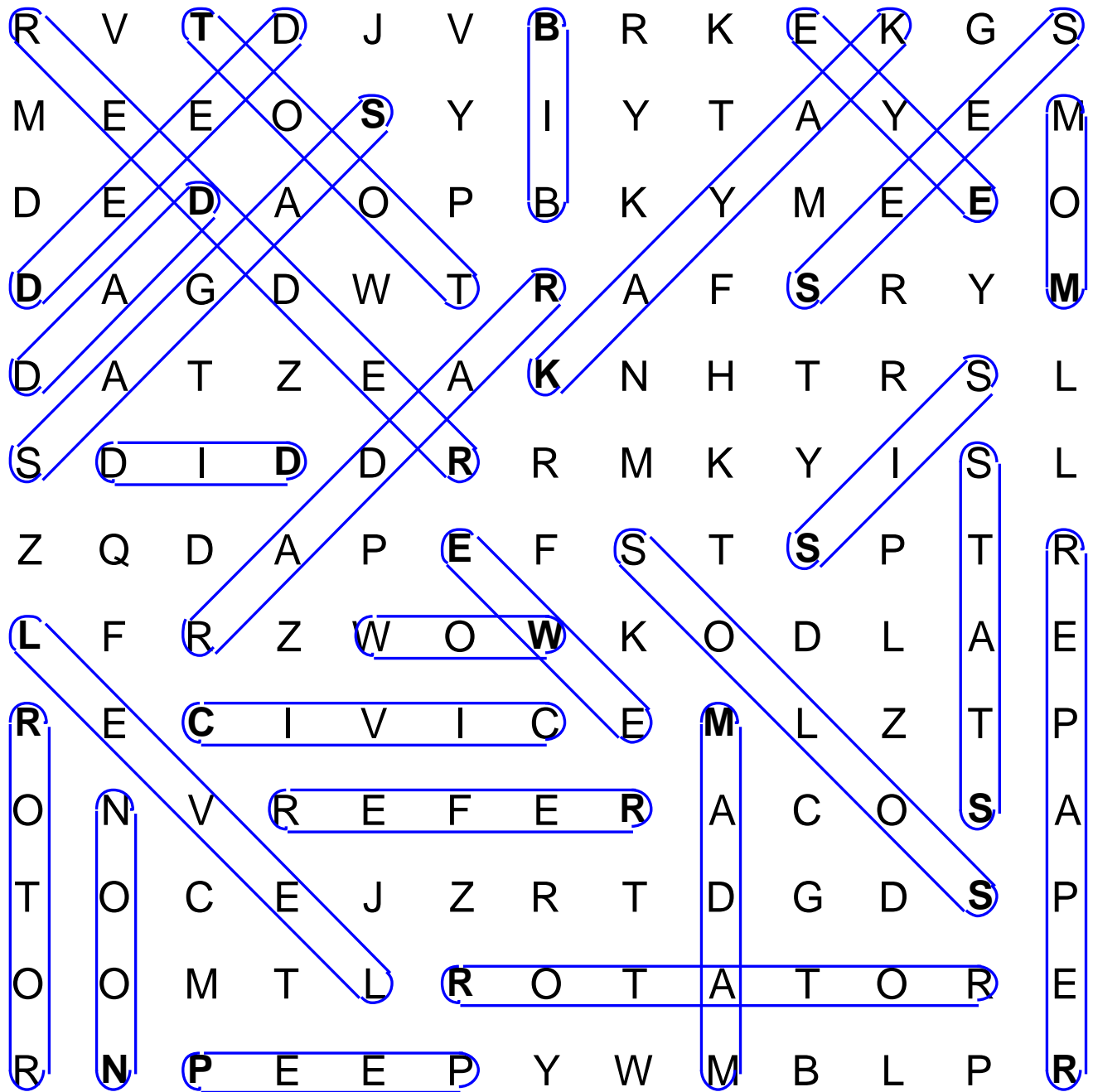
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Palindrome Word Search

R	V	T	D	J	V	B	R	K	E	K	G	S
M	E	E	O	S	Y	I	Y	T	A	Y	E	M
D	E	D	A	O	P	B	K	Y	M	E	E	O
D	A	G	D	W	T	R	A	F	S	R	Y	M
D	A	T	Z	E	A	K	N	H	T	R	S	L
S	D	I	D	D	R	R	M	K	Y	I	S	L
Z	Q	D	A	P	E	F	S	T	S	P	T	R
L	F	R	Z	W	O	W	K	O	D	L	A	E
R	E	C	I	V	I	C	E	M	L	Z	T	P
O	N	V	R	E	F	E	R	A	C	O	S	A
T	O	C	E	J	Z	R	T	D	G	D	S	P
O	O	M	T	L	R	O	T	A	T	O	R	E
R	N	P	E	E	P	Y	W	M	B	L	P	R

BIB	EWE	MOM	REFER	SEES
CIVIC	EYE	NOON	REPAPER	SIS
DAD	KAYAK	PEEP	ROTATOR	SOLOS
DEED	LEVEL	RADAR	ROTOR	STATS
DID	MADAM	REDDER	SAGAS	TOOT

Palindrome Word Search Key



Palindrome Fill-in-the-Blank

Palindrome sentences can be read the same forward and backwards with punctuation, capitalization, and spaces usually ignored and/or rearranged. For example, look at the classic "Madam, I'm Adam." Now try reading it from the last letter to the first, changing the spaces and punctuation between the letters in your mind as you do so that it reads the same when read as written.

Below are some palindromic sentences for you to fill in the missing letters on the blanks to complete.

Never od _____.

_____ no pets.

No lemons, _____.

_____ t on evil.

Too bad I h _____.

_____, Boston.

Rise to v _____, _____.

_____. _____ y metal worm.

Was it a r _____?

_____, _____ s aloof as a bard.

Palindrome Fill-in-the-Blank Key

Palindrome sentences can be read the same forward and backwards with punctuation, capitalization, and spaces usually ignored and/or rearranged. For example, look at the classic "Madam, I am Adam." Now try reading it from the last letter to the first, changing the spaces between the letters in each word in your mind as you do so that it reads the same when read as written.

Below are some palindromic sentences for you to fill in the missing letters on the blanks to complete.

Never od d o r e v e n.

Never odd or even.

S t e p o n no pets.

Step on no pets.

No lemons, n o m e l o n.

No lemons, no melon.

L i v e n o t on evil.

Live not on evil.

Too bad I h i d a b o o t.

Too bad I hid a boot.

N o t s o, Boston.

Not so, Boston.

Rise to v o t e, s i r.

Rise to vote, sir.

M r. O w l a t e m y metal worm.

Mr. Owl ate my metal worm.

Was it a r a t I s a w?

Was it a rat I saw?

D r a b a s a f o o l, a s aloof as a bard.

Drab as a fool, as aloof as a bard.

Palindrome Math

Try this math experiment:

Take any 2-digit number (example: 12) and add it to the numbers reversed (example: 21). Is the answer a palindrome? In this case, yes:

$$\begin{array}{r} 12 \\ +21 \\ \hline 33 \end{array}$$

However, this isn't always the case and you may need to repeat the reversing process over and over again to reach a palindrome number. For example:

$$\begin{array}{r} 87 \\ +78 \\ \hline 165 \\ +561 \\ \hline 726 \\ +627 \\ \hline 1353 \\ +3531 \\ \hline 4884 \end{array}$$

Using the Palindrome Numbers Chart and the above method, fill in the color key at the top then color the corresponding squares to indicate which numbers are already palindromes, which only take one step addition to become palindromes, 2 steps, and so on. (Note: there are no 5-step palindromes for the numbers in this chart.)

Use the space below to speculate which numbers you think will take the least number of steps and which will take the most.

When you have finished coloring in the chart, use this space to record your observations of patterns you see as well as if your speculations above were correct.

Palindrome Math Numbers Chart

Key:

- | | | |
|--|--|--|
| <input type="checkbox"/> Already palindromes | <input type="checkbox"/> 3-step palindrome | <input type="checkbox"/> more than 6-steps |
| <input type="checkbox"/> 1-step palindrome | <input type="checkbox"/> 4-step palindrome | |
| <input type="checkbox"/> 2-step palindrome | <input type="checkbox"/> 6-step palindrome | |

10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99

Palindrome Math Numbers Chart

Answer Key

Key:

 Already palindromes	 3-step palindrome	 more than 6-steps
 1-step palindrome	 4-step palindrome	
 2-step palindrome	 6-step palindrome	

10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99