Problems in Arithmetic—Grade VIII.

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1. A man can spend $15 on papering a room 18 feet long, 15 feet wide and 12 feet high. The room has two doors 3 feet by 7 feet, and two windows 3 feet by 6 feet. The cost of putting on the paper is $3, how much can he pay for a roll of 8 yards, 18 inches wide?

2. The cost of carpeting the same room with carpet 27 inches wide at $2.50 a yard is what?

3. Find cost of one floor on the same room ¾ inch thick at $25 a m.

4. A cylinder is 20 inches high and holds 10 gallons; find its basal diameter.

5. Find the proceeds of a note of $350, dated June 5th, at 3 months, bearing 5 per cent. interest, and discounted June 27th at 7 per cent.

6. A book is sold at a price which gives a gain of 20 per cent. and a discount of 10 per cent. on the marked price of $2; find the cost.

7. Oranges bought at $2.50 a hundred are sold at the rate of 3 for 10 cents; find gain per cent.

8. A horse which cost $200 is sold to A at a gain of 40 per cent.; A, after he is injured, sells him to B at a loss of 30 per cent.; find A's loss in dollars.

9. What principal will produce $67.50 interest in 3 years at 3 per cent?

10. If 600 liters sell for $120 at a gain of 25 per cent., find gain (in dollars and cents) on 500 gallons.

11. An agent receives $4292.50 to buy flour on 1 per cent. commission. If flour costs $4.25 a barrel, find the number of barrels he can buy.

12. The base of a triangle is 40 rods, the height is 60 yards; find the area in ac. sq. rds., sq. yds., sq. ft., sq. in.

13. Reduce 6 fur., 14 rds., 3 yds., 2 ft. 8 in. to the fraction of a mile.

ANSWERS. (1) Number of rolls 19 5-6, or 20 cost 60 cents. (2) $100. (3) $6.75. (4) 13.28 + inches. (5) $354.55—$4.96=$349.59. (6) $1.50. (7) 33 1-3 per cent. (8) $84. (9) $750. (10) $90.86. (11) 1,000 barrels. (12) 1 ac. 58 sq. rds. 4 sq. yds. 4 sq. feet 72 sq. inches. (13) $\frac{394}{495}$

What bosom beats not in his country's cause?—*Pope.*

I am glad to think
I am not bound to make the world go right,
But only to discover and to do
With cheerful heart the work that God appoints.
—*Jean Ingelow.*

"All Thy Work Praise Thee, Oh Lord."

Green Things.—

We all green things, we blossoms bright or dim,
Trees, bushes, brushwood, corn, and grasses slim,
We lift our many-favored lands to Him.

Medicinal Herbs.—

I bring refreshment,—
I bring ease and calm,—
I lavish strength and healing,—
I am balm,—
We work His pitiful will and chant our psalm.

Birds.—

Winged Angels of this visible world, we fly
To sing God's praises in the lofty sky;
We scale the height to praise our Lord most High.

Beasts and Cattle.—

We forest beasts,—we beasts of hill or cave,—
We border-loving creatures of the wave—
We praise our King with voices deep and grave.

Small Animals.—

God forms us weak and small, but pours out all
We need, and notes us while we stand or fall;
Wherefore we praise Him, weak and safe and small.

All Men.—

All creatures sing around us, and we sing;
We bring our own selves as our offering,
Our very selves we render to our King.

Little Children.—

He maketh me,—
And me,—
And me,—
To be
His blessed little ones around His knee,
Who praises Him by mere love confidingly.

All.—

Let everything that hath or hath not breath,
Let days and endless time, let life and death,—
Praise God, praise God, praise God, His creature saith.
—*Christina Rossetti.*

Five Little White Heads.

Five little white-heads peeped out of the mold,
When the dew was damp and the night was cold:
And they crowded their way through the soil with pride:
"Hurrah! We are going to be mushrooms!" they cried.
But the sun came up, and the sun shone down,
And the little white-heads were withered and brown:
Long were their faces, their pride had a fall—
They were nothing but toadstools, after all.