

Exercise Your Brain: Magic Square

| | | | |
|----|----|----|----|
| 4 | 5 | 16 | 9 |
| 14 | 11 | 2 | 7 |
| 1 | 8 | 13 | 12 |
| 15 | 10 | 3 | 6 |

- How many ways can you find the total of 34 by adding four numbers from the square?

Environmental Gamma Monitors



Environmental Gamma Monitors

- Ultra-high sensitivity 0.1 $\mu\text{R}/\text{h}$
- Stable from -40°C to $+50^{\circ}\text{C}$
- Small and light weight
- Many features including:
 - Wireless
 - GPS
 - Embedded Recorder
 - And more!



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Conveyor Belt Radiation Monitors – For Automatic Scanning of Nuclear Waste



Conveyor Belt Radiation Monitors – For Automatic Scanning of Nuclear Waste

- Eliminates inadequate hand scanning
- Ultra-sensitive to 5 nCi
- Gamma and Beta detectors
- Microprocessor and computer controlled



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Tritium Monitors

Offering the world's most complete line of Tritium Monitors. Just a few of the instruments in our program include:

- Model 357
- Model 347
- Portable Model 200SB

And Many More!



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Tritium Monitor – Model 357



Tritium Monitor – Model 357

- MDA of 1 $\mu\text{Ci}/\text{m}^3$
- Immune to radon
- Available with plate out proof ionization chambers



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Tritium Monitor – Model 347



Tritium Monitor – Model 347

- MDA of 1 $\mu\text{Ci}/\text{m}^3$
- Immune to radon
- Quadruple ionization chambers for total Gamma compensation
- Available with plate out proof ionization chamber



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Tritium Monitor – Portable Model 200SB, General Purpose Survey Monitor



Tritium Monitor – Portable Model 200SB, General Purpose Survey Monitor

- MDA of 10 $\mu\text{Ci}/\text{m}^3$ or 100 KBq/m^3
- Immune to radon
- Dual ionization chambers
- Ultra fast speed of response, 10-15 sec to 90% of final reading
- Low cost



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Tritium Monitor – Portable Models 400SBDyC and 400SBDyC-HTO



Tritium Monitor – Portable Models 400SBDyC and 400SBDyC-HTO

- MDA better than $2 \mu\text{Ci}/\text{m}^3$
- Immune to radon
- Quadruple ionization chambers for total Gamma compensation of noble gas suppression
- RS-232 output available
- Battery or line powered



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Tritium Monitor – Portable Models SP1400, SP1400DD and SP1400AD



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Tritium Monitor – Portable Models SP1400, SP1400DD and SP1400AD

- MDA better than 1 $\mu\text{Ci}/\text{m}^3$
- Immune to radon
- Available with analog or digital display
- Available with dual or quadruple ionization chambers
- Battery or line powered
- Total Gamma compensation or noble gas suppression



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Tritium Monitor – Nuclear Power Plant Model NPPM



Tritium Monitor – Nuclear Power Plant Model NPPM

- Noble radioactive gas suppression
- Available with multi inlet sampling systems
- Dual or quadruple plate out proof ionization chambers
- MDA of 1 $\mu\text{Ci}/\text{m}^3$
- Wide ranges to 1 Ci/m^3 or higher



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Ultra-Sensitive Stack-Effluent Monitors For Jet/UKAEA Active Gas Handling Systems

- MDA of $0.1 \mu\text{Ci}/\text{m}^3$, $2 \text{KBq}/\text{m}^3$
- Dual plate out proof ionization chambers



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Tritium in Water Monitors

- Uses either liquid or solid scintillator detectors
- Fully automatic
- Sensitivities from 1 $\mu\text{Ci/liter}$ up to 1 nCi/liter , depending on detector and stock preparation system

*Different Versions Available
for Use in CANDU Reactors*



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Tritium, Carbon14 and Passive Samplers

- 4 vial or 6 vial plus CO₂ trap versions available
- Available with constant mass flow controller
- Simple, reliable – pump will last forever



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Tritium in Water Monitors



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- ANSWER: There are 86 different ways of reaching the constant 34.